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ABSTRACT

This document contains 546 criterion-referenced multiple choice and true or false test items for a course in auto mechanics. The test item bank is designed to work with both the Vocational Instructional Management System (VIMS) and Vocational Administrative Management System (VAMS) in Missouri. The items are grouped into 35 units covering the following topics: safety; shop operation; components and careers; general electrical system; battery; starting system; charging system; lighting system; gauges and electrical accessories; ignition system; fuel and exhaust systems; emission control systems; general engine diagnosis--remove and replace; cylinder head and valve train; short block; engine completion and start-up procedure; lubrication and cooling system; steering systems; front suspension systems; rear suspension systems; tire and wheel alignment; hydraulic systems; drum brakes; disc brakes; power assist brakes; clutch; manual transmission/transaxle; off-car transmission/transaxle; air conditioning; heating system; and leadership competencies. The 14 references used in constructing the test item bank are listed. The following information is provided for each test item: unique item number; duty area and task number (Missouri competency profile); letter of correct answer; source; date; learning domain (cognitive, affective, psychomotor); writer(s)/reviewer(s); and accompanying artwork. (KC)

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Criterion-Referenced Test Items for

Auto Mechanics

INSTRUCTIONAL MATERIALS LABORATORY
UNIVERSITY OF MISSOURI-COLUMBIA • COLUMBIA, MISSOURI

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Auto Mechanics

Criterion-Referenced Test (CRT) Item Bank

Dana Tannehill, editor/project coordinator
Instructional Materials Laboratory
8 London Hall
University of Missouri-Columbia
Columbia, MO 65211

Catalog No. 70-1700-E
1991

The activity which is the subject of this report was supported in whole or in part by funds from the Department of Elementary and Secondary Education, Division of Vocational and Adult Education. However, the opinions expressed herein do not necessarily reflect the position or policies of the Missouri Department of Elementary and Secondary Education or the Division of Vocational and Adult Education, and no official endorsement should be inferred.

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FOREWORD

Rapid advances in technology are placing heavy demands on both teachers and students in vocational education. These auto mecahnics criterion-referenced test items are designed to help meet these demands.

All test writers face one basic challenge: to produce test items that accurately measure what they are intended to measure. This challenge was kept firmly in mind by all those who participated in the development of the bank. The items in the bank are based upon competencies found on the Missouri Auto Mechanics Competency Profile. Much care was taken to ensure that the test items will accurately measure a student's knowledge in regard to these competencies. Every effort was made to ensure that the items are presented in a fair and unbiased manner.

The test items in this publication are designed to work with both the Vocational Instructional Management System (VIMS) and VAMS. The test item bank will allow instructors and administrators to manage testing and evaluation activities in the most efficient way possible. For word processing and test-item generation purposes, an ASCII disk of the item bank has been included with this printed copy.

This test item bank should be viewed as a beginning. It is hoped that future revisions and additions will build the bank into an even more powerful and reliable evaluation and management tool.

Judith Moore, supervisor
Industrial Education
Department of Elementary and Secondary Education

Charles "Chuck" Waibel, director
Industrial Education
Department of Elementary and Secondary Education

ACKNOWLEDGMENTS

This Auto Mechanics (CRT) Item Bank represents a continuing commitment to Missouri's Vocational Instructional Management System (VIMS). The bank is keyed to the auto mechanics competency profile developed by industry and education professionals in the state. The process of curriculum development includes the following steps:

1. Develop the competency profile (task list)
2. Conduct the instructional analysis
3. Search for existing instructional materials and/or development of a cross-reference of existing instructional materials to the competency profile
4. Develop the curriculum guide
5. Field-test the curriculum guide
6. Develop mediated curriculum (e.g., videocassettes)
7. Develop the test-item bank

To ensure that test items are firmly based on information available to students, development of the test item bank is the final step in the development process.

These individuals contributed to the development of the test items as advisory committee members, writers, and/or field testers:

Don Corbin, , North Central AVTS
Robin Ferguson, Kirksville AVTS
David Hevel, Hannibal AVTS
Ken Hutcherson, Tri-County Technical School
Fred Smith, University of Missouri (IML)
James Wallis, Waynesville AVTS

A special acknowledgement is extended to Dr. Charles Oviatt, educational consultant, Vienna, Missouri for his assistance in the development of the test-item bank.

Support and contributions of IML staff mendmbers were instrumental to the success of this project:

Harley Schlichting, director
Amon Herd, associate director
Phyllis Miller and Dan Stapleton, assistant directors
Wei Lie, graduate assistant
Lori Holliday, word processor III
Judy Kolb, secretary

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2. Demonstrate an understanding of one's personal values
3. Perform tasks related to effective personal management skills
4. Demonstrate interpersonal skills
5. Demonstrate etiquette and courtesy
6. Demonstrate effectiveness in oral and written communications
7. Develop and maintain a code of professional ethics
8. Maintain a good professional appearance
9. Perform basic tasks related to securing and terminating employment
10. Perform basic parliamentary procedures in a group meeting

Field	Contents	Field	Contents
1	Unique item number	5	Date (MMYY)
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3	Letter of correct answer	7	Writer(s)/reviewer(s)
	Source (author, year of publication)	8	Accompanying artwork (ART)

....

1. | A1 | a | IML Module 1 | 0890 | C | Don Corbin |

Parts washing solvent can irritate skin.

a. True

b. False

....

2. | A1 | b | IML Module 1 | 0890 | C | Don Corbin |

Choke and carburetor cleaner can be used as a lubricant.

a. True

b. False

....

3. | A1 | b | IML Module 1 | 0890 | C | Don Corbin |

Brake cleaner will not damage most vehicle paint.

a. True

b. False

....

4. | A1 | a | IML Module 1 | 0890 | C | Don Corbin |

Gasket remover is extremely flammable.

a. True

b. False

....

5. | A2 | b | IML Module 1 | 0890 | C | Don Corbin |

An open-end wrench is a good tool for loosening a bolt or nut.

a. True

b. False

....

6. | A2 | d | IML Module 1 | 0890 | C | Don Corbin |

Which wrench should be used on a fuel line?

a. Open-end wrench

b. Combination wrench

c. Box-end wrench

d. Flare-nut wrench

....

7. | A2 | d | IML Module 1 | 0890 | C | Don Corbin |

What type of socket should be used with an air wrench?

a. Shallow 6 point

b. Shallow 12 point

c. Deep 6 point

d. Impact 6 point

....

8. | A3 | b | IML Module 1 | 0890 | C | Don Corbin |

Which tool presents the greatest burn hazard to the technician?

a. Electric ratchet

b. Drop light

c. Electric drill

d. Air wrench

....

9. | A3 | c | IML Module 1 | 0890 | C | Don Corbin |

What is the primary purpose of the third prong on an 110-volt electrical plug?

a. To provide power to the equipment

b. To prevent electrical polarization of the equipment

c. To protect the equipment operator from electrical shock

d. To hold the plug firmly in the socket

....

10. | A3 | a | IML Module 1 | 0890 | C | Don Corbin |

Death can result from compressed air being forced into the blood stream.

a. True

b. False

....
11. | A4 | b | IML Module 1 | 0890 | C | Don Corbin |

Only individuals using air or electrical power tools need to wear hearing protection in the shop.

a. True

b. False

....
12. | A4 | c | IML Module 1 | 0890 | C | Don Corbin |

Which article of clothing does not provide adequate protection in the shop?

a. Gloves

b. Aprons

c. Tennis shoes

d. Coveralls

....
13. | A4 | a | IML Module 1 | 0890 | C | Don Corbin |

Wearing jewelry in the shop increases the risk of personal injury.

a. True

b. False

....
14. | A4 | a | IML Module 1 | 0890 | C | Don Corbin |

At what decibel level will noise cause hearing loss?

a. 90 decibels

b. 60 decibels

c. 30 decibels

d. 10 decibels

....

15. | A5 | a | IML Module 1 | 0890 | C | David Hevel |

A technician wearing dirty overalls can soil a car interior.

a. True

b. False

....

16. | A5 | a | IML Module 1 | 0890 | C | David Hevel |

When grinding metal, the technician must wear eye protection and respiratory protection.

a. True

b. False

....

17. | A5 | b | IML Module 1 | 0890 | C | David Hevel |

Technicians commonly work under vehicles that are not supported by safety stands.

a. True

b. False

....

18. | A5 | b | IML Module 1 | 0890 | C | David Hevel |

When lifting heavy objects, strong men and women can safely use their back muscles instead of their leg muscles.

a. True

b. False

....
19. | A6 | b | IML Module 1 | 0890 | C | David Hevel |

Technician A says that a wool fire blanket should be used to smother small engine fires.

Technician B says that a wool fire blanket should be used to smother flames on a person.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
20. | A6 | a | IML Module 1 | 0890 | C | David Hevel |

What class of fire involves common combustibles such as wood or paper?

a. Class A fire

b. Class B fire

c. Class C fire

d. Class D fire

....
21. | A6 | d | IML Module 1 | 0890 | C | David Hevel |

What equipment should be used to fight Class B fires?

a. Water hose

b. Foam extinguisher

c. Soda/water extinguisher

d. Dry chemical extinguisher

```
...........
22.  | A6 | a  | IML Module 1 | 0890    | C  | David Hevel  |
```

Which class of fire can be fought with water?

a. Class A fire

b. Class B fire

c. Class C fire

d. Class D fire

....
23. | A7 | b | IML Module 1 | 0890 | C | David Hevel |

EPA regulations state that employers are responsible for the adequacy of eye protection equipment.

a. True

b. False

....
24. | A7 | a | IML Module 1 | 0890 | C |David Hevel |

EPA regulations state that hazardous materials must be clearly labeled.

a. True

b. False

....
25. | A7 | a | IML Module 1 | 0890 | C | David Hevel |

EPA regulations state that the EPA determines what chemicals are hazardous.

a. True

b. False

....
26. | A7 | b | IML Module | 0890 | C | David Hevel |

EPA regulations limit the amount of hazardous materials that an individual can use during a calendar year.

a. True

b. False

....
1. | B1 | b | IML Module | 0890 | C | David Hevel |

Communicating well with a customer is not an important concern of the automotive technician.

a. True

b. False

....
2. | B1 | b | IML Module 1 | 0890 | C | David Hevel |

Technician A says that an unsafe defect on an automobile should be repaired even if the customer does not authorize the repair.

Technician B says that a customer's refusal to authorize the repair of an unsafe defect should be recorded on the work order.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | B1 | b | IML Module 1 | 0890 | C | David Hevel |

Listening to a customer's complaint is an inefficient use of a technician's time.

a. True

b. False

....
4. | B1 | a | IML Module 1 | 0890 | C | David Hevel |

Greasy hand prints on an automobile are a sign of a careless technician.

a. True

b. False

....

5. | B2 | b | IML Module 1 | 0890 | C | David Hevel |

A technician who is paid by the flat-rate system is paid according to the number of hours he or she actually spends on a repair.

a. True

b. False

....

6. | B2 | a | IML Module 1 | 0890 | C | David Hevel |

A salaried technician receives a set salary regardless of how much work he or she performs.

a. True

b. False

....

7. | B2 | a | IML Module 1 | 0890 | C | David Hevel |

Most union members must pay membership fees.

a. True

b. False

....

8. | B2 | a | IML Module 1 | 0890 | C | David Hevel |

A union helps its members to negotiate salaries with their employers.

a. True

b. False

....
9. | B3 | d | IML Module 1 | 0890 | C | David Hevel |

Technician A says that procedures for repairing an electrical automotive component would probably not be found in the vehicle's service manual.

Technician B says that most service manuals do not contain service procedures that are specific to a particular make and model of vehicle.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
10. | B3 | d | IML Module 1 | 0890 | C | David Hevel |

Technician A says that procedures for repairing an electrical automotive component would probably not be found in the vehicle's service manual.

Technician B says that most service manuals do not contain service procedures that are specific to a particular make and model of vehicle.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
11. | B3 | b | IML Module 1 | 0890 | C | David Hevel |

It is illegal to base repair time estimates solely on labor estimating guides.

a. True

b. False

Field	Contents	Field	Contents
1	Unique item number	5	Date (MMYY)
2	Duty area and task number (Mo. competency profile)	6	Learning domain (Cognitive, Affective, Psychomotor)
3	Letter of correct answer	7	Writer(s)/reviewer(s)
	Source (author, year of publication)	8	Accompanying artwork (ART)

....

12. | B4 | b | IML Module 1| 0890 | C | Fred Smith |

Combination wrenches should be greased periodically.

a. True

b. False

....

13. | B4 | b | IML Module 1| 0890 | C | Fred Smith |

Greasy hand prints on a car indicate that the technician has worked hard.

a. True

b. False

Field	Contents	Field	Contents
1	Unique item number	5	Date (MMYY)
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4	Source (author, year of publication)	8	Accompanying artwork (ART)

....

1. | C1 | d | IML Module 1 | 0890 | C | Don Corbin |

How many automotive service areas are identified by ASE?

a. 5

b. 6

c. 7

d. 8

....

2. | C1 | c | IML Module 1 | 0890 | C | Don Corbin |

Which automotive service area deals with components that reduce the number of road shocks felt by vehicle passengers?

a. Electrical systems

b. Brakes

c. Suspension and steering systems

d. Engine performance

....

3. | C1 | d | IML Module 1 | 0890 | C | Don Corbin |

Which automotive service area deals with the ignition system?

a. Electrical systems

b. Brakes

c. Suspension and steering systems

d. Engine performance

....
4. | C2 | b | IML Module 1 | 0890 | C | Robin Ferguson |

How many jobs in the United States are directly or indirectly related to the production and maintenance of the automobile?

a. 1 in 5

b. 1 in 10

c. 1 in 20

d. 1 in 50

....
5. | C2 | a | IML Module 1 | 0890 | C | Robin Ferguson |

A career as an automotive teacher or trainer can be an option for an automotive technician.

a. True

b. False

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....

1. | D1 | c | IML Module 2 | 0890 | C | Don Corbin |

What condition is indicated if a test light does not come on when attached to a circuit?

a. Magnetic polarity

b. Excessive heat

c. No voltage

d. Low resistance

....

2. | D1 | d | IML Module 2 | 0890 | C | Don Corbin |

What condition is indicated if a test light gives off a bright light when attached to a circuit?

a. Magnetic polarity

b. Excessive heat

c. No voltage

d. High voltage

....

3. | D1 | a | IML Module 2 | 0890 | C | David Hevel |

Which type of test equipment should be used to test for continuity in a computer-controlled circuit?

a. High-impedance VOM

b. Low-impedance analog meter

c. Conventional test light

d. Jumper wires

....

4. | D1 | c | IML Module 2 | 0890 | C | David Hevel |

Why must a multimeter be set at the highest range before it is used to check voltage?

a. To protect circuit components

b. To protect electrical wire insulation

c. To protect the multimeter

d. To protect the technician

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....

5. | D2 | a | IML Module 2 | 0890 | C | David Hevel |

What happens to a circuit when a fusible link fails?

a. An open is created

b. A short is created

c. A ground is created

d. An overload is created

....

6. | D2 | a | IML Module 2 | 0890 | C | Don Corbin |

Which problem creates a short circuit?

a. The circuit current finds a shorter path to ground.

b. The circuit has no voltage.

c. The circuit has no resistance.

d. The circuit is broken.

....

7. | D2 | c | IML Module 2 | 0890 | C | Don Corbin |

Technician A says that a short circuit will cause increased current flow from the battery.

Technician B says that a short circuit will cause decreased circuit resistance.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
8. | D2 | c | IML Module 2 | 0890 | C | Don Corbin |

Technician A says that a voltmeter should be used to test an energized circuit for opens.

Technician B says that, when removed from its circuit, an electrical component should be tested with an ohmmeter.

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
9. | D2 | b | IML Module 2 | 0890 | C | David Hevel |

An ohmmeter reading of zero taken between the positive and negative battery cables when the cables are disconnected indicates that there is no battery drain.

a. True

b. False

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....

10. | D3 | a | IML Module 2 | 0890 | C | David Hevel |

The manufacturer's specifications for an alternator rotor using a 12-volt battery are 2.5 through 3.5 amps. What is an acceptable resistance for the rotor?

a. 3.4 through 4.8 ohms

b. 8.4 through 9.8 ohms

c. 13.4 through 14.8 ohms

d. 18.4 through 19.8 ohms

....

11. | D3 | d | IML Module 2 | 0890 | C | David Hevel |

What can happen if an ohmmeter is used to test a live circuit?

a. The circuit may be damaged

b. A magnetic field may be induced around the circuit

c. A magnetic field may be induced around the ohmmeter

d. The ohmmeter may be destroyed

....
12. | D4 | a | IML Module 2 | 0890 | C | David Hevel |

What voltmeter range and function would be correct for measuring battery voltage on a late-model domestic vehicle?

a. 20 VDC

b. 20 VAC

c. 12 DC

d. 12 MDC

....
13. | D4 | a | IML Module 2 | 0890 | C | Don Corbin |

How should a voltmeter be hooked to a circuit?

a. Parallel

b. Series

c. Series-Parallel

d. None of the above

....

14. | D5 | c | IML Module 2 | 0890 | C | David Hevel |

Which problem would cause an ammeter reading to be higher than normal?

a. Open circuit

b. Increase in circuit resistance

c. Decrease in circuit resistance

d. Polarized circuit

....

15. | D5 | a | IML Module 2 | 0890 | C | David Hevel |

What is the resistance of a circuit that has a 12-volt power source and a current flow of 10 amps.

a. 1.2 ohms

b. 2.2 ohms

c. 3.2 ohms

d. 4.2 ohms

....

16. | D5 | b | IML Module 2 | 0890 | C | David Hevel |

What is the function of an ammeter shunt?

a. To increase current flow through the meter movement

b. To decrease current flow through the meter movement

c. To limit the circuit's resistance

d. To increase circuit voltage

....
17. | D5 | c | IML Module 2 | 0890 | C | David Hevel |

How must a direct-reading ammeter be connected?

a. Series-parallel

b. Parallel

c. Series

d. None of the above

....
18. | D5 | a | IML Module 2 | 0890 | C | Robin Ferguson |

On a circuit current draw test, what would cause an ammeter to give a reading greater than specification?

a. Decrease in circuit resistance

b. Open circuit

c. Excessive circuit resistance

d. None of the above

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....

1. | E1 | a | IML Module 2 | 0890 | C | Don Corbin |

What cleaning agent best cleans batteries, battery clamps, and battery connectors?

a. Baking soda and water

b. Hydrochloric acid

c. Gasoline

d. Kerosene

....

2. | E1 | b | IML Module 2 | 0890 | C | Don Corbin |

Shop towel should be used to clean battery connectors and cables in order to make a better connection.

a. True

b. False

....
3. | E2 | d | IML Module 2 | 0890 | C | Robin Ferguson |

If a battery's reserve has a cold-cranking current of 330 amps at zero degrees Fahrenheit for 100 minutes, what load should be applied to test the battery's capacity?

a. 50 amps

b. 100 amps

c. 115 amps

d. 165 amps

....
4. | E2 | c | IML Module 2 | 0890 | C | Robin Ferguson |

After fifteen seconds of cranking the engine with the ignition disabled, the voltage should not drop below how many volts?

a. 7.5 volts

b. 8.5 volts

c. 10.2 volts

d. 12 volts

....

5. | E3 | a | IML Module 2 | 0890 | C | David Hevel |

What kind of explosive gas is produced when a battery is charged or discharged?

a. Hydrogen

b. Methane

c. Peroxide

d. Oxides of nitrogen

....

6. | E3 | b | IML Module 2 | 0890 | C | David Hevel |

What is the primary reason why a frozen battery should never be jumped?

a. The donor battery may be drained

b. The frozen battery's case may split

c. The frozen battery may produce peroxide

d. The donor battery's drain time may be reduced

....

7. | E3 | a | IML Module 2 | 0890 | C | David Hevel |

The negative battery cable should be disconnected first on a negatively grounded electrical system.

a. True

b. False

....

8. | E3 | d | IML Module 2 | 0890 | C | David Hevel |

Where should the negative jumper cable be connected on the vehicle being jumped?

a. Negative battery terminal

b. Positive battery terminal

c. Alternator

d. Engine or frame

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....
9. | E4 | b | | 0890 | C |Don Corbin |

When installing a battery, the technician should connect the negative cable first.

a. True

b. False

....

1. | F1 | b | IML Module 2 | 0890 | C | David Hevel |

What problem would likely cause a test instrument to give an infinite reading between the solenoid engagement terminal and ground?

a. Low circuit resistance

b. Open hold-in coil

c. Excessive battery drain

d. None of the above

....

2. | F1 | c | IML Module 2 | 0890 | C | David Hevel |

The solenoid engagement terminal should be receiving current when the ignition is in which position?

a. Key on position

b. Key off position

c. Engine crank position

d. Accessory position

....

3. | F1 | a | IML Module 2 | 0890 | C | David Hevel |

What problem would cause a high voltage reading during a voltage drop test on an insulated starter circuit?

a. High resistance in the insulated circuit

b. Low resistance in the insulated circuit

c. High current draw in the grounded circuit

d. Bad starter brushes

....
4. | F1 | c | IML Module 2 | 0890 | C | David Hevel |

Technician A says that low current draw on the starter circuit and slow cranking speed could be caused by a loose negative battery cable.

Technician B says that low current draw on the starter circuit and slow cranking speed could be caused by a loose starter.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
5. | F1 | a | IML Module 2 | 0890 | C | Robin Ferguson |

A starter draw test measures current used to crank the engine.

a. True

b. False

....
6. | F1 | a | IML Module 2 | 0890 | C | Robin Ferguson |

Technician A says that a worn brush could cause the results of a starter amperage draw test to be unusually low.

Technician B says that the armature rubbing on the pole shoes could cause the results of a starter amperage draw test to be unusually low.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

7. | F2 | b | IML Module 2 | 0890 | C |Don Corbin |

Which step should be performed before a starter is removed?

a. Disconnect charging system

b. Disconnect battery negative cable

c. Disconnect fuel system

d. None of the above

....

8. | F2 | b | IML Module 2 | 0890 | C | Don Corbin |

A starter should be replaced if its drive teeth are worn.

a. True

b. False

....

9. | F3 | c | IML Module 2 | 0890 | C | David Hevel |

Which problem is NOT caused by worn starter bushings?

a. Dragging armature on field coils

b. Slow initial starter speed

c. Starter freewheeling

d. High current draw

....

10. | F3 | d | IML Module 2 | 0890 | C | David Hevel |

What can cause the drive on a disassembled starter to rotate in only one direction.

a. Abnormal starter drive retainer action

b. Slipping torque tube

c. Broken release bearing

d. Normal one-way clutch action

....

11. | F3 | b | IML Module 2 | 0890 | C | David Hevel |

What problem will cause a self-powered test lamp to light when one lead touches the commutator and the other lead touches ground?

a. Shorted armature

b. Grounded armature

c. Open commutator

d. Grounded field winding

....

12. | F3 | c | IML Module 2 | 0890 | C | David Hevel |

Technician A says that a grounded armature will cause a high current draw and a slow crank speed.

Technician B says that a rough commutator will cause excessive arcing.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....
1. | G1 | c | IML Module 2 | 0890 | C | Don Corbin |

Technician A says that a blown instrument cluster fuse could cause the alternator warning light to stay on while the engine is running.

Technician B says that an open circuit could cause the alternator warning light to stay on while the engine is running.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
2. | G1 | b | IML Module 2 | 0890 | C | Don Corbin |

Technician A says that an alternator belt will become glazed if the belt is too tight.

Technician B says that the alternator bearing will fail if the alternator belt is too tight.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | G1 | b | IML Module 2 | 0890 | C | Don Corbin |

What should be done to repair an alternator with a no-charge condition if a full field test shows the alternator's output is correct?

a.   Adjust voltage regulator

b.   Replace voltage regulator

c.   Replace alternator belt

d.   Rebuild alternator

....
4. | G1 | d | IML Module 2 | 0890 | C | Don Corbin |

What should be done to repair an alternator with a no-charge condition if a full field test shows that the alternator's output is NOT correct?

a.   Adjust voltage regulator

b.   Replace voltage regulator

c.   Replace alternator belt

d.   Rebuild alternator

....
5. | G1 | b | IML Module 2 | 0890 | C | Robin Ferguson |

Which problem would not be a likely cause of alternator noise?

a.   Worn bearing

b.   Broken field winding

c.   Loose alternator mounting

d.   Defective diode

....

6. | G2 | a | IML Module 2 | 0890 | C | David Hevel |

Which device should be used to measure belt tension?

a. Tension gauge

b. Calibrated caliper

c. Toe gauge

d. Stepped tension

....

7. | G2 | b | IML Module 2 | 0890 | C | Robin Ferguson |

Which procedure is NOT performed during a test of the stator assembly?

a. Inspecting the stator for signs of damage

b. Using a voltmeter to test the stator assembly wiring

c. Using an ohmmeter to test for continuity from the stator leads to the frame

d. Testing continuity from one stator lead to the other leads

....
8. | G3 | b | IML Module 2 | 0890 | C | David Hevel |

Where should the technician connect the ohmmeter leads when testing an alternator stator for grounds?

a. To both stator leads

b. To a stator lead and its frame

c. To a stator lead and the rotor housing

d. To the commutator slip rings

....
9. | G3 | b | IML Module 2 | 0890 | C | David Hevel |

Why should the housing be marked before the alternator halves are separated?

a. To ensure that the halves are separated in the proper sequence

b. To provide a reference for reassembly

c. To help align the stator rotor

d. To keep the slip rings aligned

....
10. | G3 | d | IML Module 2 | 0890 | C | David Hevel |

Technician A says that a grounded circuit can cause an ohmmeter to give an infinite reading from the alternator slip ring to the rotor core.

Technician B says that the ohmmeter leads should be reversed if the ohmmeter gives an infinite reading from the alternator slip ring to the rotor core.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

11. | G3 | a | IML Module 2 | 0890 | C | Robin Ferguson |

When an ohmmeter is used to test the continuity of an alternator rotor from one slip ring to another, the circuit should be closed.

a. True

b. False

....

12. | G3 | d | IML Module 2 | 0890 | C | Robing Ferguson |

Which device would most likely have to be replaced if a negative diode is found to be defective?

a. Stator assembly

b. Rotor assembly

c. Rectifier end frame

d. Rectifier assembly

....

13. | G3 | c | IML Module 2 | 0890 | C | David Hevel |

What problem will be caused by an open diode in a rectifier bridge?

a. Loose alternator drive belt

b. High current output

c. Low current output

d. overcharged battery

....
14. | G4 | a | IML Module 2 | 0890 | C | Robin Ferguson |

Which of the following devices is not used as a charge indicator on today's vehicles?

a. Ohmmeter

b. Indicator light

c. Ammeter

d. Voltmeter

....
15.| G4 | b | IML Module 2 | 0890 | C | Don Corbin |

Which device should be disconnected before the alternator is removed?

a. Horn

b. Battery

c. Radio

d. Radiator fan

....
16. | G4 | a | IML Module 2 | 0890 | C | Don Corbin |

Which types of voltage regulators are used in an automotive charging system?

a. Internal regulator/external regulator

b. Horn regulator/air conditioning regulator

c. Starter relay/fan relay

d. None of the above

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....

1. | H1 | c | IML Module 2 | 0890 | C | David Hevel |

Technician A says that a bad instrument voltage regulator can cause both the temperature gauge and oil pressure gauge to give incorrect readings.

Technician B says that a poor ground in the dash gauge units can cause both the temperature gauge and oil pressure gauge to give incorrect readings.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | H1 | b | IML Module 2 | 0890 | C | David Hevel |

On a domestic vehicle, a shorted brake switch could cause both the front left turn signal and the rear brake lights to flash.

a. True

b. False

....

3. | H1 | a | IML Module 2 | 0890 | C |David Hevel |

The technician should never touch a halogen bulb with his or her fingers.

a. True

b. False

....
4. | H1 | c | IML Module 2 | 0890 | C | Don Corbin |

Which problem could cause the left front turn signal to fail while the remaining turn signals function normally?

a. Faulty flasher unit

b. Defective turn signal switch

c. Burned out bulb

d. Shorted turn signal circuit

....
5. | H1 | b | IML Module 2 | 0890 | C | David Hevel |

Which problem could cause one headlight to work on high beam but not on low beam while the other headlight works on low beam?

a. Broken high-beam filament

b. Open low-beam circuit

c. Open high-beam circuit

d. Defective high-low-beam switch

....
6. | H1 | b | IML Module 2 | 0890 | C | Don Corbin |

How is a D.C. voltmeter usually connected during a test of an electrical circuit?

a. In series parallel to the load

b. In parallel to the load

c. In series to the load

d. In parallel to the shunt

....

7. | H2 | c | IML Module 2 | 0890 | C | Don Corbin |

Which problem will cause headlights to burn out frequently?

a. Loose or broken battery ground cable

b. Loose or broken alternator ground cable

c. Loose connection in the headlight circuit

d. Defective high-low-beam-switch

....

8. | H2 | b | IML Module 2 | 0890 | C | Don Corbin |

When two wires are spliced, one wire should always be at least one size bigger than the other.

a. True

b. False

....

9. | H2 | b | IML Module 2 | 0890 | C | Don Corbin |

When a copper wire is spliced, how far should the wire's insulation be stripped back?

a. 1/4 inch

b. 1/2 inch

c. 3/4 inch

d. 1 inch

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....

1. | I1 | a | IML Module 2 | 0890 | C | Hevel |

Technician A says that a failed engine lubrication system can cause the oil pressure gauge to register no pressure while the engine runs at 1000 rpm.

Technician B says that a short in the oil pressure sending unit can cause the oil pressure gauge to register no pressure while the engine runs at 1000 rpm.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | I1 | a | IML Module 2 | 0890 | C | Don Corbin |

Which problem would cause the fuel gauge to indicate that the tank is partially full when the tank is empty?

a. Deformed fuel tank

b. Defective tank vent

c. Leak in the fuel line

d. Fuel tank cap that fails to seat

....
3. | I2 | c | IML Module 1 | 0890 | C | Don Corbin |

Technician A says that, if a failed horn sounds when a jumper wire is placed from the positive battery terminal to the horn, the problem could be a defective horn button.

Technician B says that, if a failed horn sounds when a jumper wire is placed from the positive battery terminal to the horn, the problem could be a defective horn relay.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
4. | I2 | a | IML Module 2 | 0890 | C | Don Corbin |

Which problem could cause the wipers to stop in the wrong position?

a. Faulty wiper park switch

b. Loose wiper motor shaft

c. Disconnected washer pump wire

d. Defective washer motor

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....

5. | I2 | a | IML Module 2 | 0890 | C | David Hevel |

A wiper motor with low resistance could consistently blow the wiper motor fuse or circuit breaker.

a. True

b. False

....

6. | I2 | c | IML Module 2 | 0890 | C | David Hevel |

Why do most automotive horn circuits include a relay?

a. To provide a low-current path to the horn

b. To reduce current flow through the relay

c. To reduce the current flow through the horn button

d. To increase current flow to the relay armature

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....

1. | J1 | a | IML Module 3A | 0890 | C|Ken Hutcherson |

Technician A says that the piston rings may be worn if adding oil to the engine during a compression test raises low compression readings significantly.

Technician B says that the valves may by leaking if adding oil to the engine during a compression test raises low compression readings significantly.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | J1 | b | IML Module 3A | 0890 | C|Ken Hutcherson |

A cylinder leakage tester is not as versatile and accurate as a compression tester.

a. True

b. False

....

3. | J1 | d| IML Module 3A | 0890 | C| Ken Hutcherson |

Which test can most quickly identify a dead cylinder?

a. Compression test

b. Cylinder leakage test

c. Dwell test

d. Cylinder balance test

....

4. | J1 | a | IML Module 3A| 0890 | C |Ken Hutcherson |

Normal idling vacuum on a gasoline engine is from 15 to 20 inches.
a. True

b. False

....

5. | J1 | c | IML Module 3A| 0890 | C | Ken Hutcherson |

Which problem is most likely the cause of very low pressure in two adjacent cylinders?

a. Leaking exhaust valves

b. Leaking piston rings

c. Blown head gasket

d. Burned pistons

Field	Contents	Field	Contents
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....

6. | J2 | b | IML Module 3A| 0890 | C | Ken Hutcherson |

The distributor primary wire connects to the positive terminal at the coil on a negative ground system.

a. True

b. False

....

7. | J2 | c | IMl Module 3A| 0890 | C | Ken Hutcherson |

Which of the following devices would a technician most likely use to test an ignition pickup coil?

a. Timing light

b. Voltmeter

c. Ohmmeter

d. Ammeter

....

8. | J2 | d | IML Module 3A| 0890 | C | Ken Hutcherson |

Technician A says that a steel .008-inch feeler gauge blade should be used to adjust the air gap during pickup coil replacement.

Technician B says that the pickup coil air gap should be at least .010 of an inch wide.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
9. | J3 | b | IML Module 3A| 0890 | C |Ken Hutcherson |

Cracking of the spark plug wire insulation does not require replacement of the wire.

a. True

b. False

....
10. | J3 | a | IML Module 3A| 0890 | C |Ken Hutcherson |

Coating the tip of the distributor rotor with new silicone dielectric compound will reduce radio interference noises.

a. True

b. False

....
11. | J3 | b | IML Module 3A| 0890 | C |Ken Hutcherson |

RTV silicone should be used to ensure heat transfer during replacement of an internally mounted ignition control module.

a. True

b. False

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....

12. | J3 | b | IML Module 3A| 0890 | C | Ken Hutcherson |

On computer-controlled vehicles, replacement spark plug wires usually have to be routed differently than the original wires.

a. True

b. False

....

13. | J3 | b | IML Module 3A| 0890 | C | Ken Hutcherson |

A magnetic probe timing meter works on vehicles manufactured before 1970 as well as later model vehicles.

a. True

b. False

....
14. | J4 | a | IML Module 3A| 0890 | C | Ken Hutcherson |

Technician A says to use a dwell meter to measure point dwell.

Technician B says to use a feeler gauge to measure point dwell.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
15. | J4 | b | IML Module 3A| 0890 | C | Ken Hutcherson |

When replacing a Hall-Effect switch in a computer-controlled electronic ignition, the technician should use an .008-inch brass feeler gauge to adjust the air gap.

a. True

b. False

....
16. | J4 | c | IML Module 3A | 0890| C |Ken Hutcherson |

Technician A says that a timing light could be used to set computer-controlled base timing.

Technician B says that a timing meter could be used to set computer-controlled base timing.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

17. | J5 | b | IML Module 3A| 0890 | C | Ken Hutcherson |

A voltmeter with less than 10 megohms of resistance should be used to diagnose automotive computer circuits.

a. True

b. False

....

18. | J5 | a | IML Module 3A| 0890 | C | Ken Hutcherson |

The ALDL connector is located under the dash on most GM vehicles.

a. True

b. False

....

19. | J5 | b | IML Module 3A | 0890| C |Ken Hutcherson |

Technician A says to use a common low-impedance, 12-volt test light to check for voltage in a computer sensor circuit.

Technician B says that damage may result if a low-impedance analogue voltmeter is hooked to the oxygen sensor terminal.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

20. | J5 | a | IML Module 3A| 0890 | C | Ken Hutcherson |

The oxygen sensor must begin to function before a computer-controlled engine system can go from open to closed loop.

a. True

b. False

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....

21. | J6 | a | IML Module 3A| 0890 | C | Ken Hutcherson |

Some manufacturers recommend that the oxygen sensor be removed only if the exhaust system is at 120 degrees Fahrenheit or higher.

a. True

b. False

....

22. | J6 | c | IML Module 3A| 0890 | C | Ken Hutcherson |

Technician A says that, before replacement, oxygen sensor threads should be coated with antiseize compounds.

Technician B says to wear gloves when working on a hot exhaust system.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

23. | J6 | a | IML Module 3A| 0890 | C | Ken Hutcherson |

Aluminum wire should not be directly spliced with copper wire.

a. True

b. False

....

24. | J6 | b | IML Module 3A| 0890 | C | Ken Hutcherson |

When working with electrical systems, technicians wear an arm strap to limit their movements in unsafe areas.

a. True

b. False

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....
1. | K1 | d | IML Module 3B| 0890 | C | Ken Hutcherson |

Which problem could cause a carbureted engine to produce a rich fuel mixture?

a. Slipped intake manifold gasket

b. Cracked and leaking PCV hose

c. Leaking fuel pump diaphragm

d. Gasoline-contaminated nitrile float

....
2. | K1 | b | IML Module 3B| 0890 | C | Ken Hutcherson |

Which problem would not cause low fuel pressure at the fuel rail on a port-injection system?

a. Sticking fuel pump vanes

b. Disconnected injector

c. Defective fuel pressure regulator

d. Clogged fuel filter

....
3. | K1 | a | IML Module 3B | 0890 | C| Ken Hutcherson |

Technician A says that dirty injectors can cause poor engine performance.

Technician B says that dirty injectors have to be replaced to restore power and performance.

Who is correct?

a.   Technician A

b.   Technician B

c.   Both Technician A and Technician B

d.   Neither Technician A nor Technician B

....
4. | K1 | b | IML Module 3B| 0890 | C | Ken Hutcherson |

When an engine is flooded, the choke pull off (vacuum break) will open the choke a slight amount.

a.   True

b.   False

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....

5. | K2 | b | IML Module 3B| 0890 | C | Ken Hutcherson |

Technician A says that diesel fuel injection pressure should be approximately 45 psi.

Technician B says that diesel fuel injection systems can be damaged by water.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

6. | K2 | c | IML Module 3B | 0890 | C| Ken Hutcherson |

Below-freezing temperatures have what affect on diesel?

a. Causes the fuel to thin

b. Decreases the fuel's viscosity

c. Causes waxy substance to form in the fuel

d. None of above

....

7. | K2 | b | IML Module 3B| 0890 | C | Ken Hutcherson |

Copper tubing may be substituted for steel fuel lines.

a. True

b. False

....
8. | K2 | b | IML Module 3B | 0890 | C|Ken Hutcherson |

Port fuel injection hoses and carbureted fuel hoses are interchangeable.

a. True

b. False

....
9. | K2 | a | IML Module 3B| 0890 | C | Ken Hutcherson |

Steel gas tanks can rust both internally and externally.

a. True

b. False

....
10. | K2 | a | IML Module 3B| 0890 | C | Ken Hutcherson |

A small hole in fuel lines may admit air without showing signs of fuel leakage.

a. True

b. False

....

11. | K3 | b | IML Module 3B| 0890 | C | Ken Hutcherson |

Technician A says to use an external vacuum source when checking the choke unloader.

Technician B says to open the throttle wide open to check the choke unloader.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

12. | K3 | c | IML Module 3B| 0890 | C | Ken Hutcherson |

What should the technician do with a float after removing it from a carburetor?

a. Discard it

b. Replace it

c. Weigh it

d. Reinstall it

....
13. | K3 | d | IML Module 3B| 0890 | C | Ken Hutcherson |

Which method is best for cleaning a disassembled carburetor?

a. Spray with carburetor cleaner

b. Immerse in a solvent tank

c. Rinse with hot soapy water

d. Immerse in carburetor cleaner

....
14. | K3 | c | IML Module 3B | 0890 | C| Ken Hutcherson |

Technician A says that throttle plate screws are not normally removed when a carburetor is overhauled.

Technician B says that the throttle body should be removed for cleaning when a carburetor is overhauled.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

15. | K4 | c | IML Module 3B | 0890 | C|Ken Hutcherson |

Technician A says that carburetor identification numbers can be located on an attached tag.

Technician B says that carburetor identification numbers can be stamped on the carburetor.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

16. | K4 | d | IML Module 3B | 0890 | C| Ken Hutcherson |

The carburetor float can be adjusted by bending the float arm.

a. True

b. False

....

17. | K4 | b | IML Module 3B | 0890 | C|Ken Hutcherson |

The technician should adjust for carburetor flooding by lowering the float drop adjustment.

a. True

b. False

....

18. | K4 | a | IML Module 3B | 0890 | C|Ken Hutcherson |

When overhauling and adjusting the carburetor, the technician should lightly seat the idle mixture screw and back it out to specification.

a. True

b. False

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....

19. | K5 | c | IML Module 3B| 0890 | C|Ken Hutcherson |

Technician A says that a vacuum leak can result in a lean fuel mixture.

Technician B says that a torn induction hose on the mass airflow sensor between the intake manifold and sensor can result in incorrect signals being sent to the engine's computer.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

20. | K5 | d | IML Module 3B| 0890 | C | Ken Hutcherson |

Which instruments are used to perform an injector balance test on a port injection system?

a. Fuel pressure gauge and dial indicator

b. Tachometer and oscilloscope

c. Halogen detector and sonic leak checker

d. Tachometer and fuel pressure gauge

....

21. | K5 | a | IML Module 3B| 0890 | C | Ken Hutcherson |

Before cleaning fuel injectors, the technician should make sure the engine is at operating temperature and the fuel return lines to the gas tank are blocked.

a. True

b. False

....
22. | K6 | a | IML Module 3B | 0890 | C|Ken Hutcherson |

To prevent damage to the casting, the fuel metering assembly cover gasket should be left in place when the injector is removed from the throttle body.

a. True

b. False

....
23. | K6 | a | IML Module 3B | 0890 | C|Ken Hutcherson |

The technician can check the throttle body injector for leaks by turning on the ignition key without cranking the engine.

a. True

b. False

....
24. | K6 | b | IML Module 3B | 0890 | C|Ken Hutcherson |

Where should a luminosity probe be inserted during dynamic timing of a diesel fuel injection pump?

a. Magnetic pickup holder at the harmonic balancer

b. Glow plug hole of the No.1 cylinder

c. Inductive pickup of a timing light

d. Timing hole in the bell housing

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....

25. | K6 | d | IML Module 3B| 0890 | C | Ken Hutcherson |

On which fuel injection system can the idle speed and mixture be manually adjusted?

a. Electronic throttle body injection

b. Electronic port fuel injection

c. Electronic sequential fuel injection

d. Bosch K-Jetronic fuel injection

....
26. | K7 | c | IML Module 3B| 0890 | C | Ken Hutcherson |

Technician A says that the engine's computer must be disabled to set the carburetor idle mixture adjustment with the propane enrichment method.

Technician B says that the EGR valve vacuum hose must be disconnected to set the carburetor idle mixture adjustment with the propane enrichment method.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
27. | K7 | b | IML Module 3B | 0890 | C|Ken Hutcherson |

Technician A says that a T.P.S. should be tested with an ammeter.

Technician B says that a T.P.S. should be tested with an ohmmeter.
Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
28. | K7 | a | IML Module 3B| 0890 | C | Ken Hutcherson |

Some electronic fuel injection pressure regulators are adjustable.

a. True

b. False

....

29. | K7 | b | IML Module 3B | 0890 | C| Ken Hutcherson |

Electrical pulses to a Bosch K-Jetronic fuel injector can be checked with a voltmeter.

a. True

b. False

....

30. | K7 | b | IML Module 3B | 0890 | C| Ken Hutcherson |

Mechanical fuel pumps are found on vehicles with electronic fuel injection.

a. True

b. False

....

31. | K7 | d | IML Module 3B | 0890 | C|Ken Hutcherson |

Technician A says that an I.A.C. is a direct current motor actuator that controls idle speeds by slightly opening and closing the throttle blades on E.C.M. command.

Technician B says that an I.S.C. controls idle speed by allowing air to pass around the throttle plates.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

32. | K7 | b | IML Module 3B| 0890 | C | Ken Hutcherson |

A manifold heat control valve should be adjusted to open only half way.

a. True

b. False

....

33. | K7 | b | IML Module 3B| 0890 | C | Ken Hutcherson |

The clamps on each exhaust system component should be tightened as each component is installed.

a. True

b. False

....

34. | K7 | a | IML Module 3B | 0890 | C|Ken Hutcherson |

Black carbon deposits on the outside of an exhaust manifold can indicate an exhaust leak.

a. True

b. False

35. | K7 | a | IML Module 3B| 0890 | C | Ken Hutcherson |

Some exhaust pipe to exhaust manifold connections do not require a gasket.

a. True

b. False

....

36. | K8 | a | IML Module 3B| 0890 | C | Fred Smith |

Mufflers usually have a small hole for draining condensation.

a. True

b. False

....

37. | K8 | b | IML Module 3B| 0890 | C | Fred Smith |

Exhaust fumes leaking at the exhaust manifold usually make a howling sound.

a. True

b. False

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....

1. | L1 | a | IML MOdule 3C| 0890 | C |James Wallis |

Which item is not a component of the emissions control system?

a. NO_x meter

b. PCV valve

c. EGR valve

d. TVS

....

2. | L1 | d | IML Module 3C | 0890 | C | James Wallis |

Technician A says that a road draft tube controls emissions on all vehicles.

Technician B says all cars built prior to the 1960's were equipped with emissions control devices.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | L1 | c | IML Module 3C| 0890 | C | James Wallis |

Technician A says that EPA regulates the emission standards on today's automobiles.

Technician B says that all emissions control devices must be serviced at regular mileage intervals.

Who is correct?

a.   Technician A

b.   Technician B

c.   Both Technician A and Technician B

d.   Neither Technician A nor Technician B

....
4. | L1 | d | IML Module 3C | 0890 | C | James Wallis |

Which component should the technician check when servicing emission controls?

a.   Carburetor air filter

b.   PCV valve and hose

c.   Fuel canister, hoses, and connections

d.   All of the above

....

5. | L2 | c | IML Module 3C | 0890 | C | James Wallis |

Technician A says that a PCV valve uses manifold vacuum.

Technician B says that PCV valves are designed for specific applications and must not be interchanged.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

6. | L2 | a | IML Module 3C | 0890 | C | James Wallis |

Technician A says that PCV valves are constructed of either plastic or metal housings.

Technician B says that a PCV valve is defective if it rattles when shaken.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

7. | L2 | a | IML Module 3C | 0890 | C | James Wallis |

If there is a backfire in the intake manifold, the PCV valve plunger is designed to close.

a. True

b. False

....

8. | L3 | a | IML Module 3C | 0890 | C | James Wallis |

Technician A says that all automotive ignition systems have a means of advancing or retarding ignition timing.

Technician B says that proper timing is not a factor in the reduction of exhaust emissions.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

9. | L3 | d | IML Module 3C | 0890 | C | James Wallis |

Which tool is not needed when servicing spark timing controls?

a. Vacuum gauge

b. Timing light

c. Tachometer

d. Dwell meter

....

10. | L3 | c | IML Module 3C | 0890 | C |James Wallis |

Technician A says that, on some automobiles, the computer and engine sensors control spark timing.

Technician B says that a technician should consult the appropriate service manual when testing or replacing spark timing controls.
Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

11. | L4 | c | IML Module 3C | 0890 | C | James Wallis |

Technician A says that some idle control units use electrical reversible motors.

Technician B says that idle speed is controlled by an electric solenoid or a vacuum diaphragm type controller on some vehicles.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

12. | L4 | b | IML Module 3C | 0890 | C | James Wallis |

ISC reversible electric controllers have two electrical connections.

a. True

b. False

....
13. | L4 | c | IML Module 3C | 0890 | C | James Wallis |

Technician A says that most late model vehicles use an idle control mechanism to improve exhaust emissions.

Technician B says that, before a technician attempts to make repairs or adjustments, the proper repair manual should be used.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

14. | L5 | b | IML Module 3C | 0890 | C | James Wallis |

The EGR valve is operated by a vacuum below the throttle plate on either carburetor or throttle body fuel systems.

a. True

b. False

....

15. | L5 | c | IML Module 3C | 0890 | C | James Wallis |

Technician A says that a defective diaphragm could cause an EGR valve to be inoperative.

Technician B says that a faulty TVS could be the cause of EGR malfunction.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

16. | L5 | b | IML Module 3C | 0890 | C | James Wallis |

Technician A says that a positive back-pressure EGR valve uses only engine exhaust back-pressure to operate the valve.

Technician B says that the primary function of an EGR valve is to use hot exhaust gases to lower combustion temperatures.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

17. | L5 | a | IML Module 3C | 0890 | C | James Wallis |

On some computer-controlled vehicles an EGR position sensor is mounted on the valve.

a. True

b. False

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....
18. | L6 | c | IML Module 3C | 0890 | C |James Wallis |

Technician A says that an air pump needs no lubrication.

Technician B says that check valves, injector tubes, and/or hoses that are burned and leaking should be replaced.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
19. | L6 | b | IML Module 3C | 0890 | C | James Wallis |

An inoperative diverter valve with adequate vacuum usually should be cleaned rather than replaced.

a. True

b. False

....
20. | L6 | d | IML Module 3C | 0890 | C | James Wallis |

Technician A says that the air pump in an air injection system should be rebuilt if it is found to be defective.

Technician B says that an air pump in good condition produces a maximum pressure of 12 psi.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
21. | L6 | a | IML Module 3C | 0890 | C |James Wallis |

The centrifugal filter fan on an air pump purifies air directed to the exhaust system.

a. True

b. False

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....

22. | L7 | b | IML Module 3C | 0890 | C | James Wallis |

Technician A says that a vacuum motor in an air cleaner cannot be replaced.

Technician B says that a defective bimetal temperature sensor could prevent a vacuum motor from receiving vacuum.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

23. | L7 | b | IML Module 3C | 0890 | C | James Wallis |

The heat stove is built into an exhaust manifold and cannot be replaced.

a. True

b. False

....

24. | L7 | b | IML Module 3C | 0890 | C | James Wallis |

Ported vacuum operates an air temperature motor.

a. True

b. False

....
25. | L7 | d | IML Module 3C | 0890 | C | James Wallis |

What could cause carburetor icing?

a. Loose or missing heat stove

b. Broken or cracked duct

c. Defective air cleaner lid gasket

d. All of the above

....

26. | L8 | c | IML Module 3C | 0890 | C |James Wallis |

Technician A says that some newer automobiles use intake manifold heat controls similar to the old thermostat spring type heat riser.

Technician B says that some newer systems use a vacuum motor that is controlled by a temperature switch or the EMC.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

27. | L8 | b | IML Module 3C | 0890 | C | James Wallis |

Manifold vacuum must be present at the manifold heat control when the engine reaches normal operating temperature.

a. True

b. False

....
28. | L8 | b | IML Module 3C | 0890 | C | James Wallis |

Technician A says that all sticking or binding manifold heat valves must be replaced.

Technician B says that the actuator may or may not be an integral part of the valve.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
29. | L8 | a | IML Module 3C | 0889 | C | James Wallis |

In a fuel evaporation heater, the heater grid is designed to operate at temperatures as high as 385 degrees Fahrenheit.

a. True

b. False

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....

30. | L8 | c | IML Module 3C | 0890 | C | James Wallis |

Technician A says that a charcoal canister is used to store fuel vapors escaping from the fuel tank and the carburetor.

Technician B says that, on fuel-injection vehicles, only the fuel tank is vented to the charcoal canister.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

31. | L8 | a | IML Module 3C | 0890 | C | James Wallis |

Some vehicles use special air filters to absorb carburetor fuel vapors during "hot soak."

a. True

b. False

....
32.| L9 | a | IML Module 3C | 0890 | C | James Willis |

Evaporative emission controls systems prevent the escape of unburned hydrocarbons into the atmosphere.

a. True

b. False

....
33. | L9 | c | IML Module 3C | 0890 | C | James Wallis |

In which component could a defect cause a fuel tank to collapse?

a. Fuel pump

b. Purge control valve

c. Fuel filler cap

d. None of the above

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....

1. | M1 | a | IML Module | 0890 | C | Ferguson |

Technician A says that a blown head gasket can cause two adjacent cylinders to have low compression while the other cylinders have normal compression.

Technician B says that improper valve timing can cause two adjacent cylinders to have low compression while the other cylinders have normal compression.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | M1 | a | IML module | 0890 | C | Ferguson |

Worn cam bearings can cause low oil pressure in an engine.

a. True

b. False

....
3. | M1 | c | IML module | 0890 | C | Ferguson |

Technician A says that a leaking valve could cause a vacuum tester needle to move rapidly back and forth.

Technician B says that a worn cam shaft could cause a vacuum tester needle to move rapidly back and forth.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
4. | M1 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that worn valve guides could cause an engine to use too much oil.

Technician B says that a cracked intake manifold gasket could cause an engine to use too much oil.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

5.	M2	a	IML Module 4	0890	C	Robin Ferguson

The vehicle's battery should be disconnected before engine accessories are removed.

a. True

b. False

....

6.	M2	a	IML Module 4	0890	C	Robin Ferguson

Both the radiator and block should be drained before the engine is removed.

a. True

b. False

....
7. | M2 | a | IML Module 4 | 0890 | C | Robin Ferguson |

During engine removal, the Freon lines should remain connected to the compressor.

a. True

b. False

....
8. | M2 | c | IML Module 4 | 0890 | C |Robin Ferguson |

Technician A says that the clutch disc must be aligned before the manual transmission is installed.

Technician B says that the flexplate must be indexed with the crankshaft before the automatic transmission is installed.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

1. | N1 | b | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that the timing chain or belt must be removed before an overhead valve cylinder head is removed.

Technician B says that the timing chain or belt must be removed before an overhead cam cylinder head is removed.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | N1 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that, when using a straightedge and feeler gauge to check a cylinder head for warpage, measure across the center of the head.

Technician B says that, when using a straightedge and feeler gauge to check a cylinder head for warpage, measure the head diagonally from corner to corner.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

3. | N1 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that cylinder head warpage could cause the head gasket to leak.

Technician B says that block warpage could cause the head gasket to leak.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

4. | N1 | a | IML Module 4 | 0890 | C | Robin Ferguson |

The cylinder head should be checked for cracks if rust is found in a combustion chamber.

a. True

b. False

....

5. | N2 | b | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that, when assembling a cylinder head, the closed-coil end of the spring should go toward the valve tip.

Technician B says that, when assembling a cylinder head, the closed coil end of the spring should go toward the cylinder head.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

6. | N2 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Where should a technician begin torquing a cylinder head?

a. At the outside edge of the engine

b. At the ends

c. In the middle

d. At the #1 cylinder

....
7. | N2 | d | IML Module 4 | 0890 | C |Robin Ferguson |

What procedure should be performed if an engine with nonadjustable hydraulic lifters has no compression after a valve job?

a. Change the head bolts

b. Install longer push rods

c. Grind material off the bottom of each rocker stand

d. None of the above

....
8. | N2 | a | IML Module 4 | 0890 | C | Robin Ferguson |

New torque-to-yield head bolts should be used when reinstalling a cylinder head.

a. True

b. False

....

9. | N3 | a | IML Module 4 | 0890 | C |Robin Ferguson |

During cylinder head reconditioning, the valve guides should be checked/reconditioned before the seats are ground.

a. True

b. False

....

10. | N3 | a | IML Module 4 | 0890 | C |Robin Ferguson |

What angle of stone would be used to narrow a 30-degree valve seat?

a. 15 degree

b. 30 degree

c. 45 degree

d. 60 degree

....

11. | N3 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that the typical clearance between the valve stem and guide should be at least .002 of an inch.

Technician B says that too little clearance between a valve stem and guide might cause a valve to stick.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

12. | N4 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that, if all the lifters in an engine are cupped, they should be replaced.

Technician B says that, if all the lifters in an engine are cupped, check the cam shaft lobes.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

13. | N4 | b | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that it is difficult to measure the lobe lift accurately.

Technician B says that, if a lobe is worn excessively, it can be visibly smaller than its neighbors.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

14. | N4 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says to coat new valve lifters with assembly lube before installing.

Technician B says that valve lifter and cam shaft damage could occur if the engine is allowed to idle too slowly during the break-in period.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

15. | N4 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that, if an engine's timing chain or belt slips, the valves can be damaged.

Technician B says that, if an engine's timing chain or belt slips, one or two teeth, the manifold vacuum will be low.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

1. | 01 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that gaskets are used to seal two or more non-moving surfaces.

Technician B says that seals are typically used between moving and non-moving parts.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | 01 | b | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that rear main seals should be installed with the lip toward the flywheel.

Technician B says that generally seals should be installed with the sealing lip toward the fluid or gas being contained.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | 01 | a | IML Module 4 | 0890 | C | Robin Ferguson |

RTV sealer can ooze out from between parts, harden, and break off.

a. True

b. False

....
4. | 01 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that excessive pressure inside the engine may cause seals and gaskets to leak.

Technician B says that pan and valve cover gaskets may leak if they are overtightened.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

5. | O2 | d | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that aluminum engine parts should be cleaned in a hot tank with an iron cleaning solution.

Technician B says to use magnufluxing to find cracks in aluminum engine parts.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

6. | O2 | a | IML Module 4 | 0890 | C | Robin Ferguson |

Piston rings can be damaged if the ring ridge is not removed.

a. True

b. False

....

7. | O2 | b | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that cylinder walls should be honed before removing the ring ridge.

Technician B says that the ring ridge should be removed before honing the cylinder.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

8. | 03 | c | IML Module 4 | 0890 | C | Robin Ferguson |

At which point will cylinder wear normally be the greatest?

a. Near the bottom of the ring travel

b. At the center of the ring travel

c. Near the top of the ring travel

d. None of the above

....

9. | 03 | a | IML Module 4 | 0890 | C | Robin Ferguson |

Cylinder taper is most often the reason that cylinders are bored.

a. True

b. False

....

10. | 03 | a | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that cylinder out of round can be detected with a dial indicator bore gauge.

Technician B says that cylinder out of round can be checked with an outside micrometer.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
11. | 03 | b | IML Module 4 | 0890 | C | Robin Ferguson |

Cylinder taper is normally checked with a straightedge and a feeler gauge.

a. True

b. False

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....

12. | 04 | b | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says to use .010" oversize bearings if a crankshaft journal is found to be .010" smaller than specification.

Technician B says to use .010" undersize bearings if a crankshaft journal is found to be .010" smaller than specification.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

13. | 04 | d | IML Module 4 | 0890 | C | Robin Ferguson |

Which problem should a technician look for when inspecting crankshafts?

a. Surface cracks

b. Journal damage

c. Oil passage condition

d. All of the above

....

14. | 04 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that a feeler gauge can be used to measure piston-to-cylinder wall clearance.

Technician B says that a feeler gauge can be used to measure piston ring side clearance.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

15. | 04 | a | IML Module 4 | 0890 | C | Robin Ferguson |

If possible, pistons should be knurled rather than replaced.

a. True

b. False

....

16. | 05 | b | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that a rigid hone should be used to correct a cylinder wall that is tapered beyond specification.

Technician B says that a cylinder must be honed after being bored.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

17. | 05 | b | IML Module 4 | 0890 | C | Robin Ferguson |

Chrome rings seat more quickly than moly rings.

a. True

b. False

....

18. | 05 | a | IML Module 4 | 0889 | C | Robin Ferguson |

A cross hatch is a good hone pattern for seating piston rings.

a. True

b. False

....
19. | 05 | a | IML Module 4 | 0890 | C | Robin Ferguson |

Before installing rings on pistons, the ring end gap should be checked inside the cylinders.

a. True

b. False

....
20. | 05 | d | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that three-piece oil rings must be installed right side up.

Technician B says that three-piece oil rings should be installed by using a ring expander.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....
21. | 06 | a | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that plastigauge should be used to check oil clearance during crankshaft installation.

Technician B says that plastigauge should be used to check crankshaft end play during crankshaft installation.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
22. | 06 | d | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that the back side of the bearing must be oiled during rod bearing installation.

Technician B says that the back side of the bearing should be coated with grease during rod bearing installation.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
23. | 06 | c | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says to pack the pump gears with petroleum jelly during oil pump installation.

Technician B says not to use RTV sealer between the oil pump and block during oil pump installation.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
24. | 06 | a | IML Module 4 | 0890 | C |Robin Ferguson |

When installing the piston and rod assembly into the block position, the crankshaft and the crank pin should be at bottom dead center.

a. True

b. False

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....

1. | P1 | a | IML Module 4 | 0890 | C | Robin Ferguson |

When priming an engine, the technician could use a speed handle with an adaptor to turn the oil pump.

a. True

b. False

....

2. | P1 | b | IML Module 4 | 0890 | C | Robin Ferguson |

After the engine has been primed, the starter should be used to crank the engine before the spark plugs are installed.

a. True

b. False

....

3. | P1 | a | IML Module 4 | 0890 | C | Robin Ferguson |

After assembly, an engine should be turned over several times by hand.

a. True

b. False

....

4. | P1 | d | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that mechanical lifters should maintain zero lash.

Technician B says that mechanical lifters must be primed before adjusting.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

5. | P2 | a | IML Module 4 | 0890 | C | Robin Ferguson |

Technician A says that, before engine start-up, the fuel system may be primed by lightly pressurizing the fuel tank.

Technician B says that fuel systems using a low-mounted canister filter or sediment bowl do not require priming before engine start-up.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

6. | P2 | a | IML Module 4 | 0890 | C | Robin Ferguson |

When an engine is first started, it should be operated at a fast idle for 10 minutes.

a. True

b. False

....

7. | P2 | b | IML Module 4 | 0890 | C | Robin Ferguson |

When breaking in an engine, the driver should operate the engine at full throttle during the first 300 miles.

a. True

b. False

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....

1. | Q1 | b | IML Module 4 | 0890 | C |Ken Hutcherson |

Which lubricant is sometimes used to pack externally mounted oil pumps?

a. Multipurpose grease

b. Petroleum jelly

c. Wheel bearing grease

d. Dry lubricant

....

2. | Q1 | a | IML Module 4 | 0890 | C | Ken Hutcherson |

Technician A says that an engine may have low oil pressure at idle but normal oil pressure at 4000 rpms if the oil pump's pressure relief valve is stuck open.

Technician B says that an engine may have low oil pressure at idle but normal oil pressure at 4000 rpms if the oil pump's pressure relief valve is stuck closed.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | Q1 | d | IML Module 4 | 0890 | C |Ken Hutcherson |

In addition to replacing the timing components, which procedure should be performed if the plastic cap has broken off the camshaft sprocket?

a. Replace the oil pump and drive-shaft

b. Replace the camshaft and lifters

c. Grind the valves and seats

d. Clean out the oil pumps, pickup screen, and pan

....
4. | Q1 | c | IML Module 4 | 0890 | C | Ken Hutcherson |

Which is not an oil pump clearance that can be checked for wear?

a. Gear to housing clearance

b. Outer rotor to housing clearance

c. Valve stem to guide clearance

d. Drive shaft to housing bushing clearance

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....

5. | Q2 | a | IML Module 4 | 0890 | C |Ken Hutcherson |

Removing the radiator cap from a hot radiator is very dangerous.

a. True

b. False

....

6. | Q2 | d | IML Module 4 | 0890 | C | Ken Hutcherson |

Which tester is best for testing freezing point of coolant in a radiator?

a. Synchrograph

b. Spectrum-analyzer

c. Centrifuge

d. Hydrometer

....

7. | Q2 | b | IML Module 4 | 0890 | C | Ken Hutcherson |

Technician A says that the top radiator hose will almost always be equipped with a spring.

Technician B says that springs are usually placed in radiator hoses to keep the hoses from collapsing as a result of suction.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

8. | Q2 | c | IML Module 4 | 0890 | C | Ken Hutcherson |

Technician A says that coolant leakage on the front right passenger compartment carpet can be coming from the hoses leading to the heater core.

Technician B says that coolant leakage on the front right passenger compartment carpet can be coming from the heater core itself.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

9. | Q3 | a | IML Module 4 | 0890 | C | Ken Hutcherson |

Belts that function as a pair should be replaced as a pair.

a. True

b. False

....

10. | Q3 | b | IML Module 4 | 0890 | C | Ken Hutcherson |

Technician A says that V-belts should ride on the bottom of the pulley groove.

Technician B says that a V-belt that is worn and slick can slip even if it is overtightened.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

11. | Q3 | c | IML Module 4 | 0890 | C | Ken Hutcherson |

Technician A says that soft cooling system hoses can swell and burst under pressure and should be replaced.

Technician B says that hard, inflexible cooling system hoses are likely to crack and break under stress.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

12. | Q3 | a | IML Module 4 | 0890 | C |Ken Hutcherson |

A torque wrench is sometimes used to tension a V-belt.

a. True

b. False

....

13. | Q3 | a | IML Module 4 | 0890 | C | Ken Hutcherson |

A belt tension gauge can be used to tension V-belts.

a. True

b. False

....

14. | Q3 | b | IML Module 4 | 0890 | C | Ken Hutcherson |

A small amount of grease should be used to quiet a noisy V-belt.

a. True

b. False

....

15. | Q4 | c | IML Module 4 | 0890 | C | Ken Hutcherson |

Technician A says that a thermostat housing can sometimes be filed to correct warpage.

Technician B says that the thermostat should be installed with the pellet end towards the engine.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

16. | Q4 | a | IML Module 4 | 0890 | C | Ken Hutcherson |

The thermostat and coolant temperature sending unit should be replaced on an engine that has severely overheated.

a. True

b. False

....
17. | Q4 | b | IML Module 4 | 0890 | C |Ken Hutcherson |

Technician A says that an electric radiator fan will not come on if the ignition switch is off.

Technician B says that the thermostat switch that controls the electric fan is usually located in the cylinder head.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
18. | Q4 | b | IML Module 4 | 0890 | C | Ken Hutcherson |

Which problem is least likely to occur if a thermostatically controlled clutch fan locks up?

a. Early failure of the water pump

b. Overheating in slow city driving

c. A slight decrease in gas mileage

d. Fan noise at highway speed

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....

19. | Q5 | d | IML Module 4 | 0890 | C | Ken Hutcherson |

Through what means are radiators without a drain cock drained?

a. A plug provided in the water pump

b. One of the heater hoses

c. The top radiator hose outlets

d. The lower radiator hose outlets

....

20. | Q5 | a | IML Module 4 | 0890 | C | Ken Hutcherson |

A vehicle's cooling system should be flushed and refilled with fresh coolant every two years.

a. True

b. False

....

21. | Q5 | b | IML Module 4 | 0890 | C | Ken Hutcherson |

Most radiator repair shops recommend refilling radiators with plain tap water.

a. True

b. False

....
22. | Q6 | b | IML Module 4 | 0890 | C | Ken Hutcherson |

After changing the oil in a turbo-charged engine, the technician should rev the engine to get the oil to the turbo as quickly as possible.

a. True

b. False

....
23. | Q6 | a | IML Module 4 | 0890 | C | Ken Hutcherson |

The lube person should record vehicle mileage and service performed during lubrication.

a. True

b. False

....
24. | Q6 | a | IML Module 4 | 0890 | C |Ken Hutcherson |

Many oil filter manufacturers recommend tightening their oil filters a specific amount after the gasket contacts the sealing base on the engine.

a. True

b. False

....
25. | Q6 | b | IML Module 4 | 0890 | C | Ken Hutcherson |

The oil filter gasket should be left dry when a new oil filter is installed.

a. True

b. False

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	Source (author, year of publication)	8	Accompanying artwork (ART)

....

1. | R1 | d | IML Module 5 | 0890 | C | James Wallis |

Which steering system device can be adjusted?

a. Idler arm

b. Ball joints

c. Tie rod

d. Steering gear

....

2. | R1 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that incorrect caster will cause a vehicle to pull to the left or right.

Technician B says that a defective radial tire can cause a vehicle to pull to the left or right.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

3. | R1 | b | IML Module 5 | 0890 | C | James Wallis |

Steering components should be checked for excessive wear after front wheels are realigned.

a. True

b. False

....
4. | R1 | a | IML Module 5 | 0890 | C | James Wallis |

Steering system problems can cause uneven tire wear.

a. True

b. False

....

5. | R2 | a | IML Module 5 | 0890 | C | James Wallis |

What should be checked before removing a power steering gear box in order to correct hard steering?

a. Steering column

b. Pitman arm

c. Fluid shaft

d. Wheel bearings

....

6. | R2 | d | IML Module 5 | 0890 | C | James Wallis |

What is the most common problem with a power steering gear box?

a. Loose mounting bolts

b. Broken sector shafts

c. Stripped splines

d. Oil leaks

....
7. | R3 | c | IML Module 5 | 0890 | C | James Wallis |

Which lubricant could be used on bushings, bearing, and seals in power steering units?

a. Wheel bearing grease

b. 10W motor oil

c. Power steering fluid

d. 90W gear oil

....
8. | R3 | d | IML Module 5 | 0890 | C | James Wallis |

Which tools should be used to install bushings and seals in steering gear housings?

a. Hammer and chisel

b. Wrench and screwdriver

c. Plastic hammer and screwdriver

d. Seal and bushing drivers

....
9. | R3 | b | IML Module 5 | 0890 | C | James Wallis |

Steering gear adjustments should be checked with a foot pound torque wrench.

a. True

b. False

....
10. | R3 | b | IML Module 5 | 0890 | C | James Wallis |

After reassembly of the steering mechanism, the sector shaft should be adjusted before any other components are adjusted.

a. True

b. False

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....

11. | R4 | a | IML Module 5 | 0890 | C | James Wallis |

Inner tie rods on rack and pinion steering systems cannot be adjusted.

a. True

b. False

....

12. | R4 | b | IML Module 5 | 0890 | C | James Wallis |

Rack and pinion steering cannot be adjusted externally.

a. True

b. False

....

13. | R4 | d | IML Module 5 | 0890 | C | James Wallis |

Which component is NOT used on a rack and pinion steering system?

a. Bellows

b. Rack

c. Inner tie rod

d. Sector shaft

....

14. | R4 | b | IML Module 5 | 0890 | C | James Wallis |

Worn sway bar rubber mounting bushings could cause the front wheels to shimmy.

a. True

b. False

....

15. | R5 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that snap rings of different thicknesses are used to adjust some pinion bearings on rack and pinion steering units.

Technician B says that shims of different thicknesses are used to adjust pinion bearings on some rack and pinion steering units.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

16. | a | R5 | IML Module 5 | 0890 | C | James Wallis |

Special service tools are required to repair rack and pinion units.

a. True

b. False

....

17. | R5 | a | IML Module 5 | 0890 | C | James Wallis |

Extreme care must be taken NOT to overtighten the fittings in the rack's aluminum housing.

a. True

b. False

....

18. | R5 | a | IML Module 5 | 0890 | C | James Wallis |

Some rack and pinion steering systems require special lubricant.

a. True

b. False

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....

19.| R6 | a | IML Module 5 | 0890 | C | Fred Smith |

The principal components of the energy-absorbing steering column are the

a. column, shift tube, steering shaft, and brackets

b. shift tube, jacket, steering wheel, and coupling

c. column, jacket, steering shaft, steering wheel, and brackets

d. column, jacket, steering shaft, steering wheel, and coupling

....

20. | R6 | d | IML Module 5 | 0890 | C | Fred Smith |

Using the incorrect bolts on the steering column brackets could

a. cause sluggish steering

b. cause hard steering

c. cause the column's electrical wires to melt

d. render the steering column unable to absorb energy

....

21. | R7 | d | IML Module 5 | 0890 | C | Fred Smith |

A tool that forces a stud out of a hole with screw pressure is called a

a. stud press

b. steering gear puller

c. linkage remover

d. taper breaking tool

....

22. | R7 | c | IML Module 5 | 0890 | C | Fred Smith |

Grease should be pumped into a steering socket until the

a. seal is warm

b. grease exists the seal

c. seal swells

d. seal contracts

. . . .

23. | R8 | b | IML Module 5 | 0890 | C | James Wallis |

Power steering fluid can be expected to be milky in appearance on a vehicle with over 50,000 miles.

a. True

b. False

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....

1. | S1 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that riding height should be checked after alignment is completed.

Technician B says that a weak front spring can result in poor handling.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | S1 | b | IML Module 5 | 0890 | C | James Wallis |

Technician A says that nonload-carrying ball joints wear faster than load-carrying ball joints.

Technician B says that some ball joints have built-in wear indicators.

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

3. | S1 | b | IML Module 5 | 0890 | C | James Wallis |

The procedure for checking for wear on a load-carrying ball joint is the same as the procedure for checking for wear on a nonload-carrying ball joint.

a. True

b. False

....

4. | S1 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that a dial indicator should be used to measure wear in ball joints.

Technician B says that manufacturer's specifications should be used to judge wear tolerance.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

5. | S2 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that many control arm bushings are made of rubber.

Technician B says that the condition of rubber control arm bushings can best be determined by visual inspection.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

6. | S2 | b | IML Module 5 | 0890 | C | James Wallis |

The control arm must be removed from the vehicle in order to replace the bushings.

a. True

b. False

....
7. | S2 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that coil springs must always be replaced in pairs.

Technician B says that a spring compressor should be used during the removal of front coil springs on passenger cars.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
8. | S2 | b | IML Module 5 | 0890 | C | James Wallis |

Technician A says that removal procedures are the same for both torsion bars and coil springs.

Technician B says that riding height is adjustable on vehicles with torsion bars.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....
9. | S3 | b | IML Module 5 | 0890 | C | James Wallis |

Serviceable wheel bearing should be serviced at what mileage intervals?

a. 5,000 to 10,000 miles

b. 20,000 to 30,000 miles

c. 40,000 to 50,000 miles

d. 60,000 to 70,000 miles

....
10. | S3 | c | IML Module 5 | 0890 | C | James Wallis |

Which procedure should NOT be done during wheel bearing service?

a. Replace bearings in original position

b. Inspect for discoloration

c. Allow bearing to spin during blow drying

d. Repack with high-temperature lubricant

....
11. | S3 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that, under normal circumstances, the spindle will seldom fail.

Technician B says that failure to service wheel bearings can result in damage to the wheel bearings.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
12. | S3 | b | IML Module 5 | 0890 | C | James Wallis |

The technician should attempt to straighten a bent spindle before replacing it.

a. True

b. False

....

13. | S4 | b | IML Module 5 | 0890 | C | James Wallis |

A shock absorber should be replaced if a light film of oil forms around the top of the shock reservoir.

a. True

b. False

....

14. | S4 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that, unless damaged in an accident, stabilizer bars seldom need to be replaced.

Technician B says that the stabilizer bars are connected to the controls arms by links and bushings.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

15. | S4 | a | IML Module 5 | 0890 | C | James Wallis |

When removing shock absorbers, the technician can use a power chisel to split frozen nuts.

a. True

b. False

....
16. | S5 | c | IML Module 5 | 0890 | C |James Wallis |

Technician A says that checking vehicle riding height is the best way to determine if a MacPherson strut suspension has a weak spring.

Technician B says that a defective dampener in a MacPherson strut could make noise.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
17. | S5 | a | IML Module 5 | 0890 | C | James Wallis |

Which devices are not used on a MacPherson strut suspension?

a. Upper control arms

b. Ball joints

c. Coil springs

d. Strut rods

153

....

18. | S5 | a | IML Module 5 | 0890 | C | James Wallis |

A defective upper bearing can cause a MacPherson strut to make a binding or a popping noise during turns.

a. True

b. False

....

19. | S5 | b | IML Module 5 | 0890 | C | James Wallis |

The dampener in a MacPherson strut supports the vehicle weight.

a. True

b. False

....
20. | S6 | b | IML Module 5 | 0890 | C | James Wallis |

Technician A says that a shop vise should be used to clamp and hold the MacPherson strut during disassembly.

Technician B says that a special tool should be used to remove a coil spring from a MacPherson strut suspension.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
21. | S6 | a | IML Module 5 | 0890 | C | James Wallis |

In MacPherson strut suspension systems, many dampeners cannot be replaced and are serviced as an entire unit.

a. True

b. False

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....

22. | S6 | a | IML Module 5 | 0890 | C | James Wallis |

Most manufacturers recommend adding a small amount of oil to the MacPherson strut housing during cartridge replacement.

a. True

b. False

....

23. | S6 | d | IML Module 5 | 0890 | C | James Wallis |

Which step is not performed during MacPherson strut installation?

a. Aligning the eccentric washer with a mark on the strut

b. Ensuring that the spring is properly seated on the spring seat

c. Checking front-wheel alignment

d. Marking cam before removing bolts

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....

1. | T1 | a | IML Module 5 | 0890 | C | James Wallis |

Technician A says that leaf springs in rear-wheel-drive suspension systems maintain the position of the rear axle.

Technician B says that rear-wheel-drive leaf spring suspension systems use control arms to maintain the position of the rear axle.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | T1 | a | IML Module 5 | 0890 | C | James Wallis |

A broken leaf spring can usually be detected by a visual inspection.

a. True

b. False

....
3. | T1 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that worn control arm bushings on a coil spring rear axle could result in a misaligned axle.

Technician B says that the tie bolts on leaf springs hold the springs together and keep the rear axle aligned.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
4. | T1 | a | IML Module 5 | 0890 | C | James Wallis |

A noise or rattle in the rear suspension is often caused by worn bushings.

a. True

b. False

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....

5. | T2 | a | IML Module 5 | 0890 | C | James Wallis |

A broken leaf can be replaced without replacing the complete multiple leaf spring unit.

a. True

b. False

....

6. | T2 | b | IML Module 5 | 0890 | C | James Wallis |

Technician A says that removing leaf springs requires less time than removing coil springs.

Technician B says that the lower rear shock retainers must be removed from their lower mounts before the coil springs can be removed from some vehicles.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

7. | T2 | d | IML Module 5 | 0890 | C | James Wallis |

Which component is NOT a leaf spring component?

a. Main leaf

b. Shackles

c. Rebound clip

d. Spring seat

....

8. | T2 | a | IML Module 5 | 0890 | C | James Wallis |

The procedures for removing the rear shocks are similar to procedures for removing the front shocks.

a. True

b. False

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....

9. | T3 | a | IML Module 5 | 0890 | C | James Wallis |

The MacPherson strut rear suspension design is similar to the MacPherson strut front suspension.

a. True

b. False

....

10. | T3 | c | IML Module 5 | 0890 | C | James Wallis |

Technician A says that the rear MacPherson strut system uses lower control arms.

Technician B says that strut rods are used to control movement of the lower control arms on rear MacPherson strut suspension systems.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

11. | T3 | b | IML Module 5 | 0890 | C | James Wallis |

Oil leaking on the rear struts indicates a defective axle.

a. True

b. False

....
12. | T4 | a | IML Module 5 | 0890 | C | James Wallis |

A missing spring insulator on a Macpherson strut suspension could cause noise.

a. True

b. False

....
13. | T4 | a | IML Module 5 | 0890 | C | James Wallis |

Which rear suspension is the least complex?

a. Leaf spring

b. Coil spring

c. Independent

d. MacPherson strut

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....

14. | T4 | c | IML Module 5 | 0890 | C | James Wallis |

Which rear suspension is the most complex?

a. Leaf spring

b. Coil spring

c. Independent

d. Air ride

....

15. | T4 | a | IML Module 5 | 0890 | C |Don Corbin |

Worn spring bushings could cause the wheel base to vary from one side of the car to the other.

a. True

b. False

....

16. | T4 | b | IML Module 5 | 0890 | C | Don Corbin |

What should be done to repair a broken leaf spring if only one leaf out of four is broken?

a. Replace all leafs

b. Replace only the broken leaf

c. Replace the broken leaf and the other two around it

d. None of the above

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....

1. | U1 | b | IML Module 5 | 0890 | C | Ken Hutcherson |

Which of the following is NOT a cause of front-wheel shimmy?

a. Wheel and tire imbalance

b. Weak or broken suspension springs

c. Defective steering stabilizers

d. Misaligned front-wheel drive axles

....

2. | U1 | a | IML Module 5 | 0890 | C | Ken Hutcherson |

Technician A says that an inadequate lubrication of the steering system can cause hard steering.

Technician B says that a missing steering stabilizer could cause hard steering.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | U1 | d | IML Module 5 | 0890 | C | Ken Hutcherson |

When should the air pressure in the tires be checked?

a. After the vehicle has been driven at least one mile at slow speed.

b. After 15 miles of highway driving

c. After the vehicle has been immobile for at least one hour

d. After the vehicle has been immobile for at least three hours

....
4. | U1 | d | IML Module 5 | 0890 | C | Ken Hutcherson |

Technician A says that camber wear is most visible in the center of the tire tread pattern.

Technician B says that overinflated tires will show greatest wear on their outside edges.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
5. | U1 | b | IML Module 5 | 0890 | C | Ken Hutcherson |

Excessive positive camber results in vehicle instability at high speeds.

a. True

b. False

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....

6. | U1 | b | IML Module 5 | 0890 | C | Ken Hutcherson |

Camber can be measured in inches or millimeters.

a. True

b. False

....

7. | U1 | a | IML Module 5 | 0890 | C | Ken Hutcherson |

On some front-wheel drive vehicles, camber is not adjustable.

a. True

b. False

....

8. | U1 | b | IML Module 5 | 0890 | C | Ken Hutcherson |

Excessive positive camber transfers road shocks to the driver.

a. True

b. False

....

9. | U2 | c | IML Module 5 | 0890 | C | Ken Hutcherson |

Technician A says that steering axis inclination reduces the need for excessive camber.

Technician B says that caster in excess of 3/4 of a degree can offset road crown effect.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

10. | U2 | d | IML Module 5 | 0890 | C | Ken Hutcherson |

Which phrase best defines thrust angle?

a. The angle that the front tires assume when the vehicle turns

b. The difference in distance between the front and rear of the front tire

c. The difference in degrees between tire centerline and true vertical

d. The direction in which the rear wheels are aimed

....

11. | U3 | a | IML Module 5 | 0890 | C | Ken Hutcherson |

Technician A says that rear camber should be set first when performing a four-wheel alignment.

Technician B says that the rear toe should be set first when performing a four-wheel alignment.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

12. | U3 | a | IML Module 5 | 0890 | C | Kent Hutcherson |

Shims can be used to adjust both rear-wheel camber and toe on some front-wheel-drive vehicles.

a. True

b. False

....

13. | U3 | a | IML Module 5 | 0890 | C | Ken Hutcherson |

Eccentric cams on the lower control arms provide a means for adjusting camber and toe on the rear wheels of some front-wheel-drive vehicles.

a. True

b. False

....
14. | U4 | d | IML Module 5 | 0890 | C | Ken Hutcherson |

Technician A says that tires should be rotated every 30,000 miles.

Technician B says that tires should be rotated in a bias rotation pattern.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
15. | U4 | d | IML Module 5 | 0890 | C | Ken Hutcherson |

What should be done to stop wheel tramp?

a. Rotate tires in a radial pattern

b. Rotate tires 60 degrees on their wheels

c. Include the spare in tire rotation

d. Check wheel and tire runout before balancing

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....
16. | U4 | c | IML Module 5 | 0890 | C | Ken Hutcherson |

Technician A says that lateral tire runout is measured on the center of the tire sidewall.

Technician B says that a bubble balancer will only do static balancing.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

1. | V1 | b | IML Module 6 | 0890 | C | David Hevel |

What is the most common function purpose of a residual pressure valve?

a. Maintains pressure in the master cylinder until the brakes are released

b. Keeps the cup seals tight when the brake pedal is released

c. Prevents the loss of brake fluid

d. Prevents dirt from entering the hydraulic system

....

2. | V1 | c | IML Module 6 | 0890 | C | David Hevel |

Which problems will most likely be caused by a leaking wheel cylinder?

a. Soft spots in the brake drum

b. Contamination of brake lines

c. Failure of half the brake system

d. Premature failure of the brake lining

....

3. | V1 | a | IML Module 6 | 0890 | C | David Hevel |

What effect will water contamination in brake fluid likely have on the brake pedal?

a. Spongy pedal

b. Hard pedal

c. Excessive pedal travel

d. None of the above

....

4. | V1 | a | IML Module 6 | 0890 | C | David Hevel |

Technician A says that a faulty brake hose could cause a soft pedal.

Technician B says that a frozen master cylinder primary piston could cause the right front brake to fail to release.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

5. | V2 | a | IML Module 6 | 0890 | C | David Hevel |

Which materials are used to make metal brake lines?

a. Double-walled seamless steel

b. Flared copper

c. Welded seam steel

d. Stainless steel

....

6. | V2 | b | IML Module 6 | 0890 | C | David Hevel |

When bleeding the brakes, the technician should open the bleeder screws at least 1 1/2 turns.

a. True

b. False

....

7. | V2 | a | IML Module 6 | 0890 | C | David Hevel |

What is the normal pressure used on a pressure bleeder for brake systems?

a. 30 psi

b. 60 psi

c. 100 psi

d. 150 psi

....
8. | V3 | d | IML Module 6 | 0890 | C | David Hevel |

Which problem would cause the brake warning light to come on during normal brake application?

a. Worn brake shoes or pads

b. Failure of the emergency brake

c. Brake fluid contamination

d. Failure of half the brake system

....
9. | V3 | c | IML Module 6 | 0890 | C | Don Corbin |

Technician A says that a sticking master cylinder could cause the rear brake light to remain on when the brakes are released.

Technician B says that an improperly adjusted brake light switch could cause the rear brake light to remain on when the brakes are released.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
10. | V3 | b | IML Module 6 | 0890 | C | Don Corbin |

Technician A says that, if fluid level in the master cylinder is adequate, failure of the rear brakes could be caused by a broken brake line.

Technician B says that, if fluid level in the master cylinder is adequate, failure of the rear brakes could be caused by a defective differential valve.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
11. | V3 | a | IML Module 6 | 0890 | C | Don Corbin |

A defective parking brake switch could cause the brake warning light to stay on after the differential pressure valve wire is disconnected.

a. True

b. False

....

12. | V4 | a | IML Module 5| 0890 | C | Ken Hutcherson |

A computer balancer can correct both static and dynamic imbalance.

a. True

b. False

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....

1. | W1 | a | IML Module 6 | 0890 | C | David Hevel |

The technician should always rebuild wheel cylinders when rebuilding drum brakes.

a. True

b. False

....

2. | W1 | a | IML Module 6 | 0890 | C | David Hevel |

Which problem is most likely to cause brake fade on a drum brake system?

a. Brake drums cut beyond specification

b. Bent backing plate

c. Internal leak in the master cylinder

d. None of the above

....
3. | W1 | b | IML Module 6 | 0890 | C | David Hevel |

Which problem can be caused by an out-of-round brake drum?

a.   Short stopping distance

b.   Pulsating pedal

c.   Grinding

d.   Soft pedal

....
4. | W1 | a | IML Module 6 | 0890 | C | David Hevel |

Grabbing can be caused by a cracked rear brake drum?

a.   True

b.   False

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....

5. | W2 | c | IML Module 6 | 0890 | C | Donald Corbin |

Which method of removing dust from a brake drum assembly is most acceptable?

a. Blowing out dust with compressed air

b. Flushing out dust with diesel fuel

c. Encapsulating drum and vacuuming dust

d. Washing away dust with soap and water

....

6. | W2 | a | IML Module 6 | 0890 | C | David Hevel |

Which device is used to measure drum diameter?

a. Brake drum micrometer

b. Out-of-round gauge

c. Tape measure

d. Go-no-go gauge

....
7. | W2 | c | IML Module 6 | 0890 | C | David Hevel |

What is the usual maximum brake drum oversize?

a. .020 of an inch

b. .050 of an inch

c. .060 of an inch

d. .120 of an inch

....
8. | W2 | b | IML Module 6 | 0890 | C | David Hevel |

Turning can usually correct hard spots in a brake drum.

a. True

b. False

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....
9. | W3 | b | IML Module 6 | 0890 | C | David Hevel |

Which problem would most likely result from putting the self-adjusting screws of a drum brake system on the wrong side of the vehicle?

a. Grooved brake drums

b. Excessive pedal travel

c. Uneven brake shoe application

d. Out-of-round brake drums

....
10. | W3 | a | IML Module 6 | 0890 | C | David Hevel |

Which problem would most likely result from broken or loose brake lining rivets?

a. Chattering

b. Grabbing

c. Fading

d. Pulsating

....
11. | W3 | b | IML Module 6 | 0890 | C | David Hevel |

Technician A says that reversing the primary and secondary brake shoes will cause the secondary shoes to wear prematurely.

Technician B says that reversing the primary and secondary brake shoes will cause the emergency brake to hold poorly.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
12. | W3 | a | IML Module 6 | 0890 | C | David Hevel |

Which problem will not cause excessive pedal travel on drum brake systems?

a. Improperly adjusted emergency brake

b. Oversized drums

c. Improperly adjusted brake clearance

d. Improper brake pedal push rod lengths

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....

1. | X1 | c | IML Module 6 | 0890 | C | David Hevel |

Which problem will not cause a disc brake system to pull during braking?

a. Seized caliper

b. Stuck piston

c. Rotor out of parallel

d. Leaking brake hose

....

2. | X1 | c | IML Module 6 | 0890 | C | David Hevel |

Technician A says that a disc rotor that is too thin will cause brake fade.

Technician B says that a disc rotor that is too thin could cause premature disc pad failure.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

3. | X1 | b | IML Module 6 | 0890 | C | David Hevel |

A defective master cylinder can cause the rear wheels to lock up before the front disc brakes become fully applied.

a. True

b. False

....
4. | X2 | a | IML Module 6 | 0890 | C | David Hevel |

A caliper piston can be removed with compressed air.

a. True

b. False

....
5. | X2 | b | IML Module 6 | 0890 | C | David Hevel |

Which device should be used to compress the caliper piston during caliper removal?

a. Pry bar

b. C-clamp

c. Screw jack

d. Hammer

....
6. | X2 | b | IML Module 6 | 0890 | C | David Hevel |

Which device is used to produce a nondirectional swirl on the disc rotor during machining?

a. Straight cut lathe tool

b. Orbital sander

c. Disc brake sander

d. Rapid feed guide

....

7. | X3 | d | IML Module 6 | 0890 | C | David Hevel |

Which problem would most likely result from improper tightening of the lug nuts on a disc brake system?

a. Premature rotor failure

b. Burned-out wheel bearing

c. Premature pad failure

d. Warped rotor

....

8. | X3 | b | IML Module 6 | 0890 | C | David Hevel |

Which condition would least likely produce a pulsating brake pedal?

a. Warped rotor

b. Bent wheel rim

c. Warped wheel hub

d. Loose wheel bearing

....
9. | X3 | d | IML Module 6 | 0890 | C | David Hevel |

Which problem is not caused by improper adjustment of the brake vacuum booster push rod?

a. Dragging brakes

b. Excessive pedal travel

c. Premature lining wear

d. Fluid leakage

....
10. | X3 | d | IML Module 6 | 0890 | C | David Hevel |

Technician A says to use light oil as assembly fluid when reassembling a disc caliper.

Technician B says to hammer on the piston to drive the disc caliper piston into its sleeve.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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7. | X3 | d | IML Module 6 | 0890 | C | David Hevel |

Which problem would most likely result from improper tightening of the lug nuts on a disc brake system?

a. Premature rotor failure

b. Burned-out wheel bearing

c. Premature pad failure

d. Warped rotor

....

8. | X3 | b | IML Module 6 | 0890 | C | David Hevel |

Which condition would least likely produce a pulsating brake pedal?

a. Warped rotor

b. Bent wheel rim

c. Warped wheel hub

d. Loose wheel bearing

....

9. | X3 | d | IML Module 6 | 0890 | C | David Hevel |

Which problem is not caused by improper adjustment of the brake vacuum booster push rod?

a. Dragging brakes

b. Excessive pedal travel

c. Premature lining wear

d. Fluid leakage

....

10. | X3 | d | IML Module 6 | 0890 | C | David Hevel |

Technician A says to use light oil as assembly fluid when reassembling a disc caliper.

Technician B says to hammer on the piston to drive the disc caliper piston into its sleeve.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

1. | Y1 | b | IML Module 6 | 0890 | C | David Hevel |

Technician A says that the check valve in a power booster is used to meter vacuum to the booster.

Technician B says that the check valve in a power booster is used to prevent engine backfire from rupturing the booster diaphragm. Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | Y1 | a | IML Module 6 | 0890 | C | David Hevel |

Technician A says that, if power brake fluid is being lost but there is no evidence of leakage, check the inside of the vacuum booster.

Technician B says that, if power brake fluid is being lost but there is no evidence of leakage, remove the check valve and test for excessive vacuum.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

3. | Y2 | b | IML Module 6 | 0890 | C | David Hevel |

The engine must be running when power brakes are bled.

a. True

b. False

....

4. | Y2 | a | IML Module 6 | 0890 | C | David Hevel |

Technician A says that a restricted vacuum source could result in hard pedal during hard braking.

Technician B says that a misadjusted cylinder push rod could result in hard pedal during hard braking.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

5. | Y3 | a | IML Module 6 | 0890 | C | David Hevel |

The high-pressure accumulator in a hydro-boost brake system is a spring-loaded device.

a. True

b. False

....

6. | Y3 | a | IML Module 6 | 0890 | C | David Hevel |

Technician A says that a defective power steering pump could cause hard steering effort in a vehicle equipped with hydro-boost.

Technician B says that a defective steering gear could cause hard steering effort in a vehicle equipped with hydro-boost.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

7. | Y4 | a | IML Module 6 | 0890 | C | David Hevel |

Anti-lock brake systems prevent four-wheel lockup.

a. True

b. False

....

8. | Y4 | a | IML Module 6 | 0890 | C |David Hevel |

Technician A says that a high-impedance VOM should be used to test anti-lock electrical components.

Technician B says that a standard analog VOM should be used to test anti-lock electrical components.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

1. | Z1 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

A clutch assembly that has been contaminated with oil can be repaired without being removed from the vehicle.

a. True

b. False

....

2. | Z1 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem would be most likely to cause a grinding sound when the clutch pedal is depressed with the engine running?

a. Bent clutch shaft

b. Bent pressure plate release fingers

c. Wrong type of material used for clutch facing

d. Defective throw-out bearing

....

3. | Z1 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem will cause clutch slippage?

a. Inadequate clutch pedal free travel

b. Excessive clutch pedal free travel

c. Missing clutch pedal cover pad

d. Loose clutch disc springs

....

4. | Z1 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Clutch chatter can occur when the clutch remains partially engaged after it is released.

a. True

b. False

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....

5. | Z2 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

The clutch throw-out bearing should be cleaned with solvent.

a. True

b. False

....

6. | Z2 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which is the most appropriate amount of clutch pedal free travel?

a. 1/8 inch

b. 1/4 inch

c. 1/2 inch

d. 1 inch

....

7. | Z2 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which component could be resurfaced if warped beyond specification?

a. Flywheel

b. Pilot bearing

c. Throw-out bearing

d. Input shaft collar

....

8. | Z2 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Technician A says that loosening pressure plate bolts one turn at a time in a star pattern prevents damage to the clutch disc.

Technician B says that loosening pressure plate bolts one turn at a time in a star pattern prevents damage to the clutch linkage.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

1. | Aa1 | d | IML Module 7 | 0889 | C | Ken Hutcherson |

Which tool can be used to locate the source of a noise in a transmission?

a. Oscilloscope

b. Digital voltmeter

c. Mechanic's mirror

d. Stethoscope

....

2. | Aa1 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Technician A says that a transmission that makes noise in all gears may be low on lubricant.

Technician B says that a worn synchronizer assembly could cause the transmission to operate noisily in all gears.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | Aa1 | c | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem would be the most likely cause of hard shifting in all gears?

a. Worn second gear synchronizer

b. Weak detent cam spring

c. Improperly adjusted clutch

d. Worn speedometer gear

....
4. | Aa1 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem will not cause the transmission to slip out of gear?

a. Loose transmission mounting bolts

b. Worn or damaged reverse idler bushing

c. Damaged main shaft pilot bearing

d. Worn extension housing bushing

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....

5. | Aa2 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Guide studs should be used as pilots when removing a standard transmission.

a. True

b. False

....

6. | Aa2 | b | IML Module 2 | 0890 | C | Ken Hutcherson |

The debris magnet in a transmission should be checked for worn detent springs.

a. True

b. False

....
7. | Aa2 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which is NOT a good definition of tolerance.

a. Variation of fit between two parts

b. Distance an object can move back and forth

c. Degree of looseness between two moving parts

d. The difference between two moving parts

....
8. | Aa2 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Before removing a transmission to inspect for the cause of gear clash, the technician should inspect and adjust the shift linkages.

a. True

b. False

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....

9. | Aa3 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

The transmission should be tested in all shift positions before it is installed in the vehicle.

a. True

b. False

....

10. | Aa3 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem can result from drawing up the transmission by the bell housing bolts?

a. Loss of lubricant

b. Damaged guide studs

c. Engine-to-frame mount failure

d. Broken transmission ears

....

11. | Aa3 | c | IML Module 7 | 0890 | C | Ken Hutcherson |

Which device should be used to lock the transmission shift levers in neutral while the shift linkage is being adjusted?

a. Locking pliers

b. Shift lever

c. Metal pin

d. Shift rod

....

12. | Aa3 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which item may be used to prevent the U-joint cap from falling off while the drive shaft is removed from the vehicle?

a. Tape

b. Magnets

c. Calipers

d. U-bolts

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....

1. | Bb1 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem would be most likely to cause a clunk to occur during clutch engagement?

a. Excessive mud or undercoating on the vehicle

b. Loose differential control arm bushings

c. Overtightened drive shaft U-bolts

d. Excessive drive shaft runout

....

2. | Bb1 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Drive shaft balance weights should be removed in order to compensate for undercoating on the drive shaft.

a. True

b. False

....

3. | Bb1 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Technician A says that a worn U-joint could cause a drive shaft to move between the yokes when shaken up and down.

Technician B says that a worn U-joint could cause a drive shaft to have play when twisted back and forth.)

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

4. | Bb1 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which method should be used to force the rear yoke of a double-carden rear CV joint from the differential companion flange?

a. Force the flange loose by pressing up on it with a floor jack

b. Remove the drive shaft from the yoke and pull the shaft sideways at rear flange

c. Hammer on the drive shaft tube until it is loose at the rear flange

d. Place a bolt in special companion flange bolt hole to push the companion flange loose

....

5. | Bb2 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which device can be used to keep the differential gear from falling out of position when the half shaft is removed?

a. Support shaft

b. Engine support fixture

c. Transaxle support fixture

d. Jack stand

....

6. | Bb2 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Rzeppa and tripod universal joints should be lubricated with motor oil.

a. True

b. False

....

7. | Bb2 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Half shaft boot clamps should be tightened as tightly as possible.

a. True

b. False

....

8. | Bb3 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem could cause improper U-joint cup alignment when it is pressed in before the snap ring can be installed?

a. The snap ring is too wide for the groove

b. The groove is machined incorrectly on the cup

c. The cup is not properly lubricated

d. A needle bearing is turned sideways in the cup

....

9. | Bb3 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem does the technician not need to look for when inspecting the condition of the center support bearing?

a. Phasing

b. Roughness

c. Looseness

d. Binding

....

10. | Bb3 | b | IML Module 7 | 0890 | C |Ken Hutcherson |

Slip yokes should be lubricated with a light film of grease before installation.

a. True

b. False

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. . . .

11. | Bb3 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Technician A says that carden U-joint snap rings can be seated by tapping gently on the yoke ears to center the joint.

Technician B says that carden U-joint snap rings can be seated by tapping gently on the roller cups to center the joint.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

1. | Cc1 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which bearings tend to whine rather than growl at low speeds?

a. Rear axle bearings

b. Differential side-carrier bearings

c. Drive pinion bearings

d. Front-wheel bearings

....

2. | Cc1 | c | IML Module 7 | 0890 | C | Ken Hutcherson |

Technician A says that broken ring gear teeth will be noisiest when the vehicle is moving in reverse.

Technician B says that a cracked ring gear will growl or clash during both forward and reverse operation.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

3. | Cc1 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Gear mesh makes a low growling sound.

a. True

b. False

....
4. | Cc2 | d | IML Module 7 | 0890 | C |Ken Hutcherson |

Technician A says to remove the third member before removing the axle.

Technician B says that the axles should be removed in order to gain access to the C-locks in the differential.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
5. | Cc2 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Why are witness marks placed on the companion flange and pinion shaft?

a. To ensure that jack stands are aligned properly

b. To ensure that lubricant will be filled to the proper level

c. To ensure that proper attaching devices are used.

d. To ensure that the flange and pinion shaft are realigned to their original positions

....
6. | Cc2| a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which device should be used to remove a stuck companion flange?

a. Puller

b. Pliers

c. Press

d. Pry bar

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....

7. | Cc2 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which method should not be used to remove the rear axle shaft bearing retaining collar?

a. Heat the collar with a torch to reduce grip

b. Split collar with a sharp chisel

c. Grind collar to reduce grip

d. Drill collar to reduce grip

....

8. | Cc3 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

On which components should an inclinometer be placed in order to check differential alignment angles?

a. U-joint caps

b. Yoke and drive shaft

c. Differential and floorpan

d. Control arms and frame

....

9. | Cc3 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

The torque specifications for the differential pinion shaft retainer bolts are usually marked on each bolt.

a. True

b. False

....

10. | Cc3 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which method is used to adjust drive pinion depth?

a. Installing special shims under the bearing cup or cone

b. Placing weights on the drive shaft

c. Varying bearing torque

d. Thicker or thinner bearing races

....

11. | Cc3 | c | IML Module 7 | 0890 | C | Ken Hutcherson |

What should be done if an oil or grease seal becomes severely cocked during installation?

a. Tap the seal with a hammer until it becomes straight

b. Remove and reinstall the seal

c. Replace the seal

d. None of the above

....

12. | Cc3 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Why should an inch-pound torque wrench be used to check pinion turning torque before yoke removal?

a. Aids in setting ring gear to pinion backlash

b. Determines torque specification for reassembly

c. Facilitates setting differential pinion to side gear

d. Allows the C-locks to be removed without damage

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....

1. | Dd1 | d | IML Module 7 | 0890 | C |Ken Hutcherson |

Technician A says that locked front hubs will cause a four-wheel-drive vehicle to operate only in the two-wheel drive mode.

Technician B says that a broken rear axle shaft will cause a four-wheel-drive vehicle to operate only in the two-wheel drive mode.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | Dd1 | d | IML Module 7 | 0890 | C |Ken Hutcherson |

Which problem would be least likely to cause a transfer case to be difficult to shift into a particular range?

a. Vehicle speed too great to permit shifting

b. Transfer case external linkage binding

c. Insufficient or improper lubricant

d. Transfer case over-filled with lubricant

....
3. | Dd1 | c | IML Module 7 | 0890 | C |Ken Hutcherson |

Technician A says that a bent drive shaft could cause the transfer case rear output shaft seal to leak.

Technician B says that a plugged case vent could cause the transfer case rear output shaft seal to leak.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
4. | Dd1 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Which activity will cause abnormal wear of the front tires on a four-wheel-drive vehicle?

a. Extensive driving with only one hub locked

b. Extensive driving on hard road surfaces while in four-wheel drive

c. Extensive driving in soft mud or gravel while in four-wheel drive.

d. None of the above

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Field	Contents	Field	Contents
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....

5. | Dd2 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which components can easily fall out and become lost during transfer case disassembly?

a. Sprockets

b. Mode indicator sensors

c. Rear bearing retainers

d. Needle bearings

....

6. | Dd2 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Technician A says to replace all bearings when overhauling a transfer case assembly.

Technician B says to replace the case if the gear teeth are excessively worn.

Who is right?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
7. | Dd2 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

The technician should turn bearings by hand when checking them for roughness.

a. True

b. False

....
8. | Dd2 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Transfer case parts should be cleaned in solvent after inspecting for metal particles and debris.

a. True

b. False

....
9. | Dd2 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Technician A says that all bearings should be replaced during transfer case reassembly.

Technician B says that the transfer case should be replaced if there is excessive wear on the gear teeth.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

10. | Dd3 | b | IML Module | 0890 | C | Ken Hutcherson |

Old gaskets should be discarded during transfer case disassembly.

a. True

b. False

....

11. | Dd3 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Which items are usually installed with special tools?

a. Bearings and seals

b. Shift rail and fork assembly

c. Drive chain and sprockets

d. Case halves

....

12. | Dd3 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

On which transfer case component must self-locking nuts be replaced?

a. Shift levers

b. Output shaft yokes

c. Case half retainers

d. Mainshaft bearing retainers

....
13. | Dd3 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which task must be performed before the transfer case attaching bolts are tightened?

a. Connect speedometer drive gear to transfer case

b. Tighten remaining bolts with a torque wrench

c. Tighten frame mounting bolts to specification

d. Put transfer case in contact with extension housing

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....

14. | Dd4 | b | IML Module 7 | 0890 | C | Ken Hutcherson |

Some four-wheel-drive locking hubs can be hydraulically operated.

a. True

b. False

....

15. | Dd4 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem is most likely to occur if a four-wheel-drive vehicle is constantly driven with one front hub locked?

a. Overheating of transfer case

b. Loss of steering control at low speeds

c. Accelerated wheel bearing wear

d. Increased fuel consumption

....

16. | Dd4 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

What condition could cause an automatic front hub to lock up?

a. A front axle that turns faster than its hub

b. A front hub that turns faster than its axle

c. Shifting of the transfer case while transmission is in neutral

d. Rear axle speed is less than that of the front axle

....
17. | Dd4 | d | IML Module 7 | 0890 | C | Ken Hutcherson |

Which problem would most likely cause front line universal joints to wear more rapidly than normal on a part-time four-wheel-drive vehicle?

a. Overtightened front-hub wheel bearings

b. Improper lubricant in the front differential assembly

c. High-speed highway driving in the two-wheel drive mode

d. A front hub that is stuck in the locked position

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....

18. | Dd5 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Technician A says that front hub parts should be wiped clean with a lint-free rag.

Technician B says that front hub parts should be cleaned in solvent and blown dry.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

19. | Dd5 | c | IML Module 7 | 0890 | C | Ken Hutcherson |

Which components transmit driving force from the axle to the hub sleeve in a front-hub assembly?

a. Keys

b. Set screws

c. Splines

d. Cross pins

....

20. | Dd5 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Four-wheel-drive front hubs require periodic service.

a. True

b. False

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....

21. | Dd6 | a | IML Module 7 | 0890 | C | Ken Hutcherson |

Some four-wheel-drive front-axle bearings require periodic adjustment.

a. True

b. False

....

22. | Dd6 | c | IML Module 7 | 0890 | C | Ken Hutcherson |

What type of bearing is used between the spindle and hub on a four-wheel-drive front-axle assembly?

a. Needle

b. Ball

c. Tapered roller

d. Straight roller

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....
1. | Eel| b | IML Module 8 | 0889 | C | Robin Ferguson |

Which problem will NOT cause low automatic transmission line pressure?

a. A worn pump

b. Burned clutch plates

c. Stuck pressure regulating valve

d. Low fluid level

....
2. | Eel | c | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that vibration in all gears of an automatic transmission can be caused by an out-of-balance torque converter.

Technician B says that vibration in all gears of an automatic transmission can be caused by loose flex plate bolts.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | Eel | a | IML Module 8 | 0890 | C | Robin Ferguson |

A faulty governor can cause an automatic transmission to upshift late under light throttle pressure.

a. True

b. False

....
4. | Eel | c | IMl Module 8 | 0890 | C | Robin Ferguson |

Technician A says that on some transmissions a clunk during the second to third gear upshift can be caused by a defective accumulator.

Technician B says that on some transmissions a clunk during the second to third gear upshift in an automatic transmission can be caused by improper transmission fluid.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

5. | Ee2 | c | IML Module 8 | 0890 | C | Robin Ferguson |

When changing the fluid and filter on an automatic transmission, the technician should fill the convertor with fluid before starting the vehicle.

a. True

b. False

....

6. | Ee2 | c | IML Module 8 | 0890 | C | Robin Ferguson |

When should the automatic transmission cooler and lines be flushed?

a. With every fluid change

b. After prolonged use at high temperatures

c. When the transmission is being rebuilt

d. When the vehicle has a slight flare between upshifts

....

7. | Ee2 | b | IML Module 8 | 0890 | C | Robin Ferguson |

Which of the following problems could result from incorrect accelerator linkage adjustment?

a. Low vacuum to modulator

b. No down shift on WOT

c. High line pressure

d. Late upshifts

....
8. | Ee2 | a | IML Module 8 | 0890 | C | Robin Ferguson |

Threaded anchor screws are used to adjust some automatic transmission bands.

a. True

b. False

....

9. | Ee3 | a | IML Module 8 | 0890 | C | Robin Ferguson |

Electric solenoids are used to control hydraulic activity in some automatic transmissions.

a. True

b. False

....

10. | Ee3 | b | IML Module 8 | 0890 | C | Robin Ferguson |

Electronic speedometers do not require speedometer gears.

a. True

b. False

....

11. | Ee3 | c | IML Module 8 | 0890 | C | Robing Ferguson |

Technician A says that accelerator linkage should be adjusted before the kickdown linkage is set in automatic transmissions.

Technician B says that defective engine mounts may change kickdown linkage adjustment in automatic transmissions.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
12. | Ee4 | c | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that defective speedometer gears could cause a speedometer to fluctuate wildly.

Technician B says that a bad speedometer head may cause a speedometer to fluctuate wildly.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
13. | Ee4 | d | IML Module 8 | 0890 | C | Robin Ferguson |

Which problem would not cause automatic transmission fluid to drip from the bottom of the bell housing?

a. Worn convertor hub

b. Loose pump bushing

c. Defective front seal

d. Cut clutch seal lip

....
14. | Ee4 | a | IML Module 8 | 0890 | C | Robin Ferguson |

Dynamic seal tools must be used to install rear extension housing seals in an automatic transmission.

a. True

b. False

....

15. | Ee4 | b | IML Module 8 | 0890 | C | Robing Ferguson |

Gasket sealer should be used on transmission pan gaskets.

a. True

b. False

....

16. | Ee4 | a | IML Module 8 | 0890 | C | Robing Ferguson |

During transmission pan gasket installation, petroleum jelly can be used to hold the pan gasket in place.

a. True

b. False

....

17. | Ee4 | c | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that a plugged transmission vent could cause a transmission to leak.

Technician A says that a worn front pump bushing could cause a transmission to leak.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
18. | Ee5 | c | IML Module 8 | 0890 | C | Robin Ferguson |

What lubricant should be applied to the pilot hole in the crank shaft during automatic transmission installation?

a. Petroleum jelly

b. Automatic transmission fluid

c. Multi-purpose grease

d. Motor oil

....
19. | Ee5 | b | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that transmission mounts should be replaced when the transmission is rebuilt.

Technician B says that a broken transmission mount could cause a drive shaft to be out of alignment.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

20. | Ee5 | b | IML Module 5 | 0890 | C | Robin Ferguson |

Which component can be damaged if the convertor assembly is improperly aligned during transmission assembly?

a. Transmission output shaft

b. Pump gear assembly

c. Pressure regulator valve

d. Planetary gear assembly

....

21. | Ee5 | b | IML Module 5 | 0890 | C | Robin Ferguson |

Technician A says that the right engine mount can be damaged during a stall test.

Technician B says that engine mounts should be checked before a stall test is performed.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

1. | Ff1 | d | IML Module 8 | 0890 | C | Robin Ferguson |

Which procedure does the technician NOT perform when removing an automatic transmission from a rear-wheel-drive vehicle?

a. Disconnect the negative battery cable

b. Mark the drive shaft for proper installation

c. Remove cables and linkages

d. Remove front pump mounting bolts

....

2. | Ff1 | c | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that a silver color in transmission fluid indicates torque converter damage.

Technician B says that brown residue in the transmission fluid is likely the result of overheating.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | Ffl | b | IML Module 8 | 0890 | C | Robin Ferguson |

When cleaning and inspecting a transmission case, the technician should check the stator assembly for lockup.

a. True

b. False

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....

4. | Ff2 | a | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that the convertor stator clutch should be unlocked when the vehicle accelerates.

Technician B says that torque multiplication is possible only when there is little difference between pump and turbine speed.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

5. | Ff2 | a | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that the automatic transmission front pump operates when the engine is cranking.

Technician B says that the governor rotates when the vehicle is not moving.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
6. | Ff2 | c | IML Module 8 | 0890 | C | Robing Ferguson |

Which type of transmission pump is a variable output pump?

a. Rotor pump

b. Internal gear pump

c. Vane pump

d. External gear pump

....
7. | Ff2 | b | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that gear-type oil pumps use a manual valve to regulate pump pressure.

Technician B says that a straight-edge and feeler gauge can be used to check a gear-type pump for wear.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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...,......

8. | Ff3 | b | IML Module 5 | 0890 | C | Robin Ferguson |

Technician A says that sticking valves must usually be replaced.

Technician B says that a plastic stick should be used to force out sticking valves.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

9. | Ff3 | d | IML Module 5 | 0890| C | Robin Ferguson|

Technician A says that a chipped planetary gear tooth would cause a transmission to make noise in all forward gears.

Technician B says that a worn planetary gear would cause the transmission to slip in reverse.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
10. | Ff3 | a | IML Module 8 | 0890 | C | Robin Ferguson |

Which items do NOT control end play (thrust runout) movement of shafts and drums? in an automatic transmission?

a. Tapered roller bearings

b. Nylon thrust washers

c. Phenolic resin thrust washers

d. Torrington needle bearings

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11. | Ff4 | b | IML Module 8 | 0890 | C | Robin Ferguson |

When assembling the clutch pack, the technician should make sure the diaphragm springs are flat.

a. True

b. False

....

12. | Ff4 | b | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that an automatic transmission band must be replaced if slots are found in the friction material.

Technician B says that the friction material on the drum in an automatic transmission should be checked for flaking.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
13. | Ff4 | d | IML Module 5 | 0890 | C | Robin Ferguson |

Technician A says that a double-wrap band requires more servo force than a single-wrap band in order to create the same holding power.

Technician B says that a single-wrap band has better holding ability than a double-wrap band.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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....

14. | Ff5 | c | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that adjusting automatic transmission bands will prevent them from dragging on the drum when in the release position.

Technician B says that automatic transmission bands must be adjusted before performing in-case air pressure checks.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

15. | Ff5 | b | IML Module 8 | 0890 | C | Robin Ferguson |

The valve body must be installed before performing in-case air pressure checks.

a. True

b. False

....
16. | Ff5 | a | IML Module 8 | 0890 | C | Robin Ferguson|

Technician A says that, during automatic transmission assembly, washers and bushings may be held in place with petroleum jelly.

Technician B says that, during automatic transmission assembly, most thrust washers and bushings are held in place with snap rings.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
17. | Ff5 | c | IML Module 8 | 0890 | C | Robin Ferguson |

Technician A says that a dial indicator should be used to measure transmission end play.

Technician B says that excessive transmission end play may cause clutch slippage.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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1. | Gg1 | a | IML Module 9 | 0890 | C |Donald Corbin |

What problem is indicated by the appearance of bubbles in the sight glass of an air conditioning system?

a. Low refrigerant charge

b. Debris in the system

c. Drive belt slipping

d. Hole in the vacuum line

....

2. | Gg1 | b | IML Module 9 | 0890 | C | Donald Corbin |

What problem can cause the vehicle's air conditioning system to make a rattling sound during operation?

a. Loose power steering belt

b. Loose air conditioning belt

c. Loose air pump belt

d. Loose alternator belt

....

3. | Gg1 | b | IML Module 9 | 0890 | C | Donald Corbin |

Which problem could cause the vehicle's air conditioning system to produce little or no cool air?

a. Low oil

b. Low refrigerant

c. Low engine coolant

d. None of the above

....

4. | Ggl | b | IML Module 9 | 0890 | C | Donald Corbin |

Overcharging an air conditioning system with refrigerant will cause the vehicle's engine to overheat.

a. True

b. False

....

5. | Gg2 | c | IML Module 9 | 0890 | C | Donald Corbin |

What component will shut down a vehicle's air conditioning system if the engine overheats?

a. Oxygen sensor

b. Oil sending unit

c. Coolant sending unit

d. Compressor pressure sensor

....

6. | Gg2 | a | IML Module 9 | 0890 | C | Donald Corbin |

Which component could cause the compressor in an automotive air conditioning system to fail to come on?

a. Compressor pressure switch

b. Engine pressure switch

c. Pressure regulator

d. None of the above

....

7. | Gg2 | d | IML Module 9 | 0890 | C | Donald Corbin |

What must be done before disconnecting the orifice tube connection on an automotive air conditioning system?

a. Bring system to operating temperature

b. Pressurize system

c. Disconnect system clutch

d. Discharge system

....
8. | Gg2 | a | IML Module 9 | 0890 | C | Donald Corbin |

Which procedure must be performed before recharging an air conditioning system that has been flushed?

a. Evacuate system

b. Pressurize system

c. Bring engine to operating temperature

d. None of the above

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1	Unique item number	5	Date (MMYY)
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[illegible]	Source (author, year of publication)	8	Accompanying artwork (ART)

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9. | Gg3 | a | IML Module 9 | 0890 | C | Donald Corbin |

Technician A says that an air conditioning system is evacuated in order to remove moisture.

Technician B says that an air conditioning system is evacuated in order to remove refrigerant and air.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

10. | Gg3 | d | IML Module 9 | 0890 | C | Don Corbin |

Technician A says that a restricted expansion valve screen could cause a gauge set to measure a high of 90 psi and a low of 60 psi when the system is operating at an ambient temperature of 85 degrees Fahrenheit.

Technician B says that a drive belt problem on the air condition compressor could cause gauge readings of 90 psi on the high side and 60 psi on the low side at an ambient temperature of 85 degrees Fahrenheit.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
11. | Gg3 | a | IML Module 9 | 0890 | C | Donald Corbin |

Restricted air flow through the condenser will cause the low side of an air conditioning system to read high.

a. True

b. False

....
12. | Gg3 | b | IML Module 9 | 0890 | C | Donald Corbin |

When recharging an air conditioning system with liquid coolant while the engine is running, the technician should tip the refrigerant can upside down.

a. True

b. False

....

13. | Gg4 | c | IML Module 9 | 0890 | C | Donald Corbin |

Technician A says that a failed thermistor in the aspirator can cause a vehicle's automatic temperature control system to malfunction.

Technician B says that a failed compressor cycling switch can cause a vehicle's automatic temperature control system to malfunction.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

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1. | Hh1| c | IML Module 9 | 0890 | C | Donald Corbin |

Technician A says that low engine coolant could cause the heating system to produce little or no heat.

Technician B says that an improperly adjusted vacuum door could cause the heating system to produce little or no heat.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....

2. | Hh1 | a | IML Module 9 | 0890 | C | Donald Corbin |

Technician A says that a defective pressure cap could cause the engine to lose coolant after running for some time.

Technician B says that a defective coolant control valve diaphragm could cause the engine to lose coolant after running for some time.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

....
3. | Hh1 | b | IML Module 9 | 0890 | C| Donald Corbin |

A defective heater coolant control valve would have little or no effect on the output of the vehicle's heater..

a. True

b. False

....
4. | Hh1 | c | IML Module 9 | 0890 | C| Donald Corbin |

Technician A says that an improperly adjusted blend door could cause air to fail to come out of the defrost vent.

Technician B says that a vacuum leak could cause air to fail to come out of the defrost vent.

Who is correct?

a. Technician A

b. Technician B

c. Both Technician A and Technician B

d. Neither Technician A nor Technician B

25

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5. | Hh2| a | IML Module 9 | 0890 | C | Donald Corbin |

What should be done if a cooling system hose expands when the engines RPM's are increased?

a. Replace hose

b. Tape hose

c. Put sealant on hose connections

d. Fit hose with a metal retainer

....
6. | Hh2 | a | IML Module 9 | 0890 | C | Don Corbin |

A defective heater vacuum control could cause the vehicle system to fail to produce heat.

a. True

b. False

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1. | Leadership 1 | c | VICA Curriculum | 0889 | C | Fred Smith |

Why should students NOT enroll in occupational training programs?

a. To work toward a career

b. To develop business and industry contacts

c. To avoid taking math, science, or english classes

d. To work toward financial independence

....

2. | Leadership 1 | a | VICA Curriculum | 0889 | C | Fred Smith |

Only one VICA club per school is allowed.

a. True

b. False

....

3. | Leadership 1 | d | VICA Curriculum | 0889 | C | Fred Smith |

How many VICA districts does Missouri have?

a. 3

b. 5

c. 7

d. 9

....
4. | Leadership 1 | b | VICA Curriculum | 0889 | C | Fred
Smith |

In which national VICA region is Missouri located?

a. 3

b. 4

c. 5

d. 6

....

5. | Leadership 2 | b | VICA Curriculum | 0889 | C | Fred Smith |

Personal values rarely affect career choices.

a. True

b. False

....

6. | Leadership 2 | a | VICA Curriculum | 0889 | C | Fred Smith |

A career should align with one's personal values, interests, and abilities.

a. True

b. False

....

7. | Leadership 3 | b | VICA Curriculum | 0889 | C | Fred Smith |

Effective decision making can be broken down into six steps.

a. True

b. False

....

8. | Leadership 3 | b | VICA Curriculum | 0889 | C | Fred Smith |

A new supervisor should be liked by all workers in order to be effective.

a. True

b. False

....

9. | Leadership 3 | d | VICA Curriculum | 0889 | C | Fred Smith |

Which goal should a supervisor work toward in order to succeed and improve worker moral?

a. Keep attention on getting work done

b. Be as fair as possible

c. Avoid taking a worker's negative feelings personally

d. All the above

....

10. | Leadership 3 | a | VICA Curriculum | 0889 | C | Fred Smith |

To be more productive, workers need ways to measure and use time more effectively.

a. True

b. False

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....

11. | Leadership 4 | d | VICA Curriculum | 0889 | C | Fred Smith |

Which trait or traits do employers expect from their employees?

a. Cooperation and acceptance of evaluation

b. Honesty

c. Initiative

d. All the above

....

12. | Leadership 4 | d | VICA Curriculum | 0889 | C | Fred Smith |

Which characteristic should employees expect from their employers?

a. Understanding of job requirements

b. Fair payment for labor

c. Equal treatment for all employees

d. All of the above

....

13. | Leadership 4 | a | VICA Curriculum | 0889 | C | Fred Smith |

Effective communication, care for people, flexibility, dependability, optimism, and perseverance are traits of good leaders.

a. True

b. False

....
14. | Leadership 5 | a | VICA Curriculum | 0889 | C | Fred Smith |

Good table manners include entering into table conversation.

a. True

b. False

....
15. | Leadership 5 | b | VICA Curriculum | 0889 | C | Fred Smith |

A coat room clerk at a restaurant is usually NOT tipped.

a. True

b. False

....
16. | Leadership 5 | a | VICA Curriculum | 0889 | C | Fred Smith |

Employees should stand when an authority figure (employer) joins them for a meal.

a. True

b. False

....

17. | Leadership 6 | b | VICA Curriculum | 0889 | C | Fred Smith |

It is a good idea to use big words when writing in order to impress people.

a. True

b. False

....

18. | Leadership 6 | a | VICA Curriculum | 0889 | C | Fred Smith |

Self-concept affects verbal communication.

a. True

b. False

....

19. | Leadership 6 | a | VICA Curriculum | 0889 | C | Fred Smith |

When speaking, always use a vocabulary that others can understand.

a. True

b. False

....
20. | Leadership 7 | a | VICA Curriculum | 0889 | C | Fred Smith |

Professionals respect themselves and others.

a. True

b. False

....
21. | Leadership 7 | a | VICA Curriculum | 0889 | C | Fred Smith |

A person's code of ethics defines his or her principles or standards of right and wrong.

a. True

b. False

....
22. | Leadership 7 | a | VICA Curriculum | 0889 | C | Fred Smith |

A professional code of ethics includes both legal and moral standards.

a. True

b. False

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23. | Leadership 8 | a | VICA Curriculum | 0889 | C | Fred Smith |

Appropriate business dress for women would include a skirt.

a. True

b. False

....

24. | Leadership 8 | a | VICA Curriculum | 0889 | C | Fred Smith |

Appropriate business attire for men would include a traditional dark suit.

a. True

b. False

....

25. | Leadership 8 | a | VICA Curriculum | 0889 | C | Fred Smith |

Fashion accessories reflect the self-image of an individual.

a. True

b. False

....

26. | Leadership 8 | a | VICA Curriculum | 0889 | C | Fred Smith |

Getting plenty of sleep and avoiding junk food can improve personal appearance.

a. True

b. False

....
27. | Leadership 9 | a | VICA Curriculum | 0889 | C | Fred Smith |

A resume is a well-organized overview of what one has to offer an employer.

a. True

b. False

....
28. | Leadership 9 | a | VICA Curriculum | 0889 | C | Fred Smith |

A letter of application should ask an employer for an interview.

a. True

b. False

....
29. | Leadership 9 | a | VICA Curriculum | 0889 | C | Fred Smith |

The local chamber of commerce can help people research employers.

a. True

b. False

....

30. | Leadership 10 | a | VICA Curriculum | 0889 | C |
Fred Smith |

When parliamentary procedures are used at a meeting, only one subject at a time should be discussed.

a. True

b. False

....

31. | Leadership 10 | a | VICA Curriculum | 0889 | C |
Fred Smith |

Parliamentary procedure calls for the finishing of old business before new business is started.

a. True

b. False

....

32. | Leadership 10 | a | VICA Curriculum | 0889 | C |
Fred Smith |

Parliamentary procedure calls for standing committee reports to be given before special committee reports.

a. True

b. False

....

33. | Leadership 10 | a | VICA Curriculum | 0889 | C |
Fred Smith |

Proper use of the gavel signals members to stand or sit.

a. True

b. False